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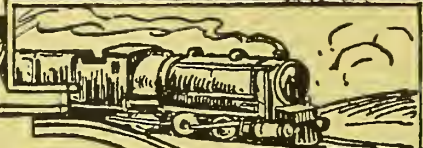
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10 lb. " "	@ £5 6 0
20 lb. " "	@ £5 5 0

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GUARANTEE the strength of
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2 lbs.	124/-	"
5 "	123/-	"
10 "	122/-	"
10,000 at 17/9 per thousand.			
100,000 at 17/3 "			
Packed in 25's at 6/6 per dozen.			
" 50's at 12/6 "			
" 100's at 24/- "			
$(\frac{1}{2} \text{ gr.} = 330 \text{ in 1.})$			
1 lb. (Average over 7,000)	...	108/-	per lb.
2 lbs. ...	...	107/-	"
5 " ...	...	106/-	"
10 " ...	...	105/-	"
10,000 at 15/6 per thousand.			
100,000 at 15/- "			
Packed in 25's at 5/9 per dozen.			
" 50's at 11/- "			
" 100's at 21/- "			
$(\frac{1}{2} \text{ gr.} = 330 \text{ in 1.})$			
1 lb. (Average over 7,000)	...	90/-	per lb.
2 lbs.	89/-	"
5 "	88/-	"
10 "	87/-	"
10,000 at 13/- per thousand.			
100,000 at 12/6 "			
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" 100's at 17/- "			

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SPECIAL TERMS FOR WHOLESALERS, and
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THE NEW SWEETENING POWDER.

Without a rival for Cakes, Puddings, and all purposes where the tablet form is inconvenient.
9d. Packets 6/9 dozen. 3 dozen for £1.
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13/9 per 1000	16/6 per 1000	21/- per 1000
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Not less than 7,500 tablets to the lb.

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18/- per 1000. Reduction for large quantities. Cash with Order. Carriage paid.

SWEETENING POWDER.

16 times as Sweet as Sugar.

17/- per lb. Cash with Order. Carriage paid. Containers free. Perfectly pure, white, and soluble.

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$\frac{1}{2}$ -gr., 330 in 1, guaranteed.

18/- per 1,000

1 lb. (average over 7,000)	...	£6	5	0	per lb.
2 lb.	6	4	6	"
5 lb.	6	4	0	"
10 lb.	6	3	6	"
20 lb.	6	3	0	"

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100's, 22/6 per dozen.

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The Holoyd Page

Tea Sweeteners and— Saccharine

As you know, Saccharine is their principal and most costly constituent.

It follows that those which are offered at cut prices with strength unstated are invariably low in sweetening power, and our advice is, if you want to please your customers don't buy them.

Rather buy from a firm who states the strength and guarantees it.

We are among the largest manufacturers of both Tea Sweeteners and Saccharine Tablets, and our facilities and turnover enable us to offer both in varying strengths, but always guaranteed, and at prices which constitute best value.

We pack for wholesalers under their own name in packages of 25 and 50 and in boxes of 500 and upwards.

Let us hear from you.

*Don't forget to ask for the
Holoyd Magazine.*

H. O. LLOYD
Manufacturing Chemist,
321/323 Coventry Road,
Birmingham.

London Depot:
3 Finsbury Square, E.C.2.

SACCHARIN 550

COUMARIN

VANILLIN

HELIOTROPIN

GRANT, HUGHES & CO.

21 Mincing Lane - LONDON, E.C. 3.

Telephone—Avenue 4567.

Telegr. Address—"Nitroform London."

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OILS AND CHEMICALS.

Buy from one of the Oldest Houses in the Trade.

Write for Prices. ESTABLISHED 1794.

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Kay's Compound Essence of Linseed,

"LINSEED COMPOUND"

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For COUGHS and COLDS.

On the P.A.T.A. List.

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"MOUNTAIN FLAX PILLS"

Linum Catharticum (Regd. Trade Mark).

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Banding Material for Fruit Trees.

BIRDLIMES, RATLIMES, and FLYGUMS.

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"Rodine" sells far better, and
customers speak more highly
of it than of other makes. ●

Mr. E. F. Suckling, Chemist, Linton, writes, 29th October,
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"I should like to take up the agency for your 'Rodine.'
I have been selling other makes, but obtained a few tins of
'Rodine,' and find that it sells far better, and customers
speak more highly of it than other makes. Will you
therefore send me a trial order and I will do my best to
push 'Rodine.'"

"Rodine" Rat Poison

"Rodine" is attractively advertised, price
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A Valuable Tonic Food for Children.

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"Prana" Sparklets.

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THE CHEMISTS' BRAND.

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Full Strength, $\frac{1}{2}$ gr. 330 in 1.
 Per lb., 140/- 5000 @ 20/9 10,000 @ 20/-
 $\frac{1}{2}$ gr. 330 in 1. 8000 to each lb.
 8000 @ 15/- 30,000 @ 14/6 50,000 @ 14/- 100,000 @ 13/6
 The above are made with Monsanto Saccharin and Howards' Soda,
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Cash with Order. Carriage Paid.

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ON THE P.A.T.A. The Proprietors of



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SOTOL non-Carbolic TOOTH POWDER

Sold in boxes at 1/- each, and to the trade at 8/- per doz.;
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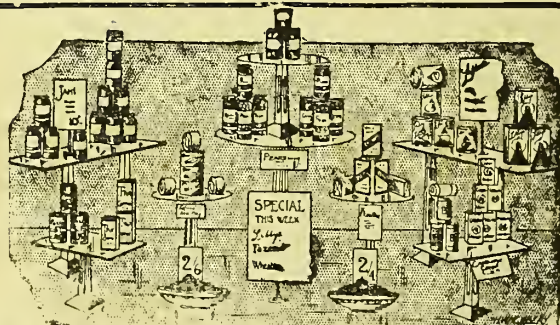
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"Joy in one's work is the consummate tool without which the work may be done indeed, but without which the work will always be done slowly, clumsily, and without its finest perfectness."

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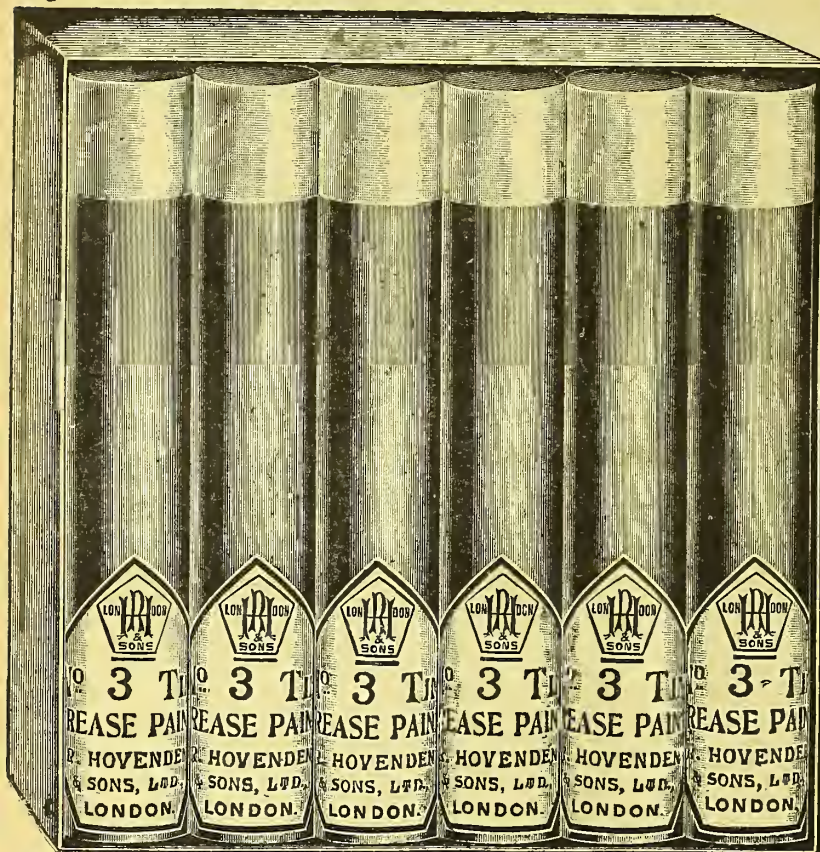
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These paints are manufactured at our Factory in Britannia Row, N. Guaranteed pure, colours perfect, and quality better than any foreign make.

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Special quotation for quantities.

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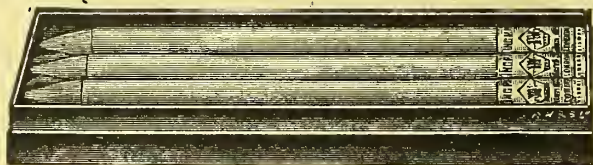
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Black, Old Red, Brown, Light Brown, Dark Brown, Light Blue, Medium Blue, Dark Blue, White, Flesh, Light Grey, Dark Grey, Carmine.

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Subject to 2½% Cash Discount.

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in tubes. An old line of great popularity.

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For cleansing and beautifying the Hair.

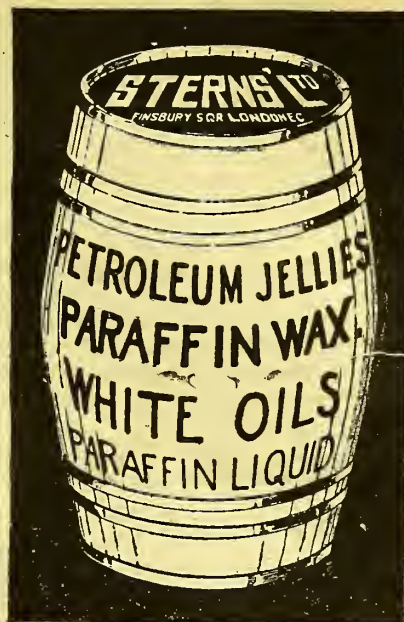
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For fixing the Hair.
Free from grease. Non-sticky.

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	P.A.T.A. Protected Retail Price.	Dozen Net.
'LOSALL'S SALT (well advertised), tins	9d.	6/6
" " " " " bottles in cartons	2/-	16/-

"Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line."

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box @ 8d.	Box. 2/-	Doz. 18/-
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Send for Price
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Revised
Retail Prices.
Grand Double
Flask 5/3
Full-size Bottle 3/-
Half-size Bottle 1/9

ODOL
Chemical Works,
BERKHAMSTED.

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Why handle Tooth Pastes of doubtful merit when you can secure the exclusive agency for an up-to-date scientifically prepared article of outstanding value and efficacy?

"SANCO" DENTAL CREAM

(Prepared to the formula of A. L. Bostock, Esq., L.D.S.) is a stylish, distinct and welcome acquisition to the Toilet Department and bears a good profit.

1/- size (P.A.T.A.) 7/6 per doz.

Attractive Showcards. Write for sample to-day.

MAURICE SMITH & Co.

(Proprietors: Messrs Cuxson, Gerrard & Co., Ltd.)

Manufacturing Chemists, KIDDERMINSTER.

Established 1839.

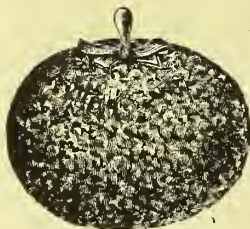
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We supply protective overalls and aprons in any colour or style required. They are made by experienced hands for all branches of the chemical trade.

Keenest Quotations sent on request, or a special representative will be pleased to call.

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Powder Puffs

OF EVERY KIND.

SOLPORT BROTHERS LIMITED,

Wholesale and Export Manufacturers of
Druggists' Sundries and Toilet Accessories,

184 to 190 GOSWELL ROAD
LONDON, E.C. 1.

LATTY'S CORN CURE

EXTENSIVELY ADVERTISED.
INCREASING SALES.
SELLING PRICE 1/3
20 PER CENT. PROFIT.

Write for Special Terms for October.

LATTY, Chemist, BRISTOL

Wholesale from Sangers, May, Roberts & Co. Ltd., &c.

SEMREH BOTTLE CAPS

will help you
over the stile.
A boy or girl
can apply them,
and they are
SELF-FIXING.

Details from
THE VISCOSE
DEVELOPMENT CO. LTD.
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Cellophane

What
Is It?

CELLOPHANE

is pure Cellulose, absolutely air, grease,
and odour proof, strong and pliant, unex-
pensive, unaffected by cold, heat or moisture.

The best Substitute for Gelatine and Tinfoil.

An ideal wrapping for Drugs, Perfumery, Con-
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Will keep your Goods, Boxes, Bottles, Labels,
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Can be had plain transparent, coloured and
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Also in the shape of Discs for Creams, Oint-
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CELLO-DRESSINGS.—A perfect and sterilisable
dressing and packing medium for Bandages,
Surgical Dressings, Instruments, &c.

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PETROLEUM JELLIES



White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

James Arnott & Sons, Ltd.

Newcastle-on-Tyne and Cardiff.



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ON account of shortage of spirit and raw materials, Christmas Perfumes will be very scarce this year; but as we are holding a very fair stock at remunerative prices to our customers, we strongly advise them to send us their requirements at an early date, in order to avoid disappointment. On receipt of postcard, if possible, one of our representatives will call with samples when next in your vicinity, or we will forward you a complete price list.

We also hold good stocks of ESSENTIAL OILS at lowest market prices, & FLORAL OTTOS, FRUIT ESSENCES, CHEMICALS, &c.

LESCOL PERFUMERY CO. Lomond Grove, Camberwell Green,
LONDON, S.E. 5.

Telephone: 810 HOP. (Proprietors: The London Essence Co.) Telegrams: "VANILLIN, CAMBER, LONDON."

THIS IS WORTH 5/6 TO YOU

In order to introduce two of our well-known Specialities, we are sending out to the first one hundred Chemists in the United Kingdom who apply to us, the following goods :—

$\frac{1}{2}$ dozen 9 $\frac{1}{2}$ d. "Virx" Healing Balm, selling at 9 $\frac{1}{2}$ d. each, realises you	-	-	-	-	4	9
$\frac{1}{2}$ dozen 4 $\frac{1}{2}$ d. "Kiola" Pomade, selling at 4 $\frac{1}{2}$ d. each, realises you	-	-	-	-	2	3
					<u>7</u>	<u>0</u>

On receipt of Postal Order for 1/6 to cover cost of postage, these will be sent immediately by return mail. We are only giving one parcel on these conditions to any individual Chemist or Druggist. Send your Postal Order, therefore, now for 1/6 and test these goods, as we are also making a special Bonus Offer in connection with the two lines to those who take advantage of this free offer. We guarantee that they are put up in tins, and an original carton. The "Virx" is bronze blue on deep yellow, both tin, carton and everything in connection with it. The "Kiola" a light blue and deep blue, both tin, carton and everything with it. Send now to the sole Proprietors and actual exclusive Manufacturers—

NI-VERRE Chemical Company,
5, 6 & 7 Ormeau Avenue, BELFAST.

TOOGOOD'S TOILET CREAMS



Creme Altesia

A non-greasy Face Cream. Packed in
1-oz. Screw-capped Jars, each in Carton.
7/- per doz.

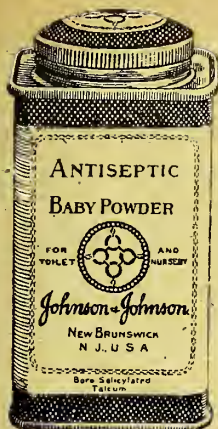


Altesia Skin Food

A greasy Skin Cream. Packed in 1 $\frac{1}{2}$ -oz.
Flat Screw-capped Jars. 7/- per doz.

Manufactured only by

William Toogood, Ltd., 77 Southwark Street, London, S.E.1.



Look for the Name
and Trade Mark.

WARNING.

The package is being imitated, but the contents and the trade mark are inimitable and the name of Johnson & Johnson is the Hall-mark for Quality.

Antiseptic Baby Powder

Johnson & Johnson.

← Minimum Retail Selling Price P.A.T.A. 10½d. per package.
← Cost 7/- per dozen net.

We are now in a position to supply THE ORIGINAL Antiseptic Baby Powder from our London warehouse.

EMPTY CONTAINERS. How to help in a War Economy.

AS it is very difficult to obtain an adequate supply of the containers for the Antiseptic Baby Powder, we consider it a National Duty at this time to endeavour to conserve these and save material and labour wherever possible. With this object in view we are prepared to make a substantial allowance for all empty containers returned to us in good condition, not scratched. For full particulars as to this allowance look for the notice which is sent out with the orders for this Antiseptic Baby Powder.

JOHN TIMPSON & CO., Ltd., 104 & 106 Golden Lane, London, E.C.1

Phone: City 6910-6911.

Telegrams: "Porous London."

140% PROFIT

Are you interested?

If so, you can gain it by buying

CARMOL SKIN TABLETS

NOW

These tablets have an ESTABLISHED REPUTATION.

The best SOOTHING AGENT for all SKIN IRRITATION.

As a SKIN TONIC they have NO EQUAL.

The preparation and packing of

CARMOL SKIN TABLETS are

Especially Attractive.

Special Offer
closing
December 3

SAMPLE ORDER.

5 gross (on Cards) @ 8/-	£2 0 0	Sold @ 1½d. each	£4 10 0
1 gross @ 24/- ...	1 4 0	Sold @ 4½d. each	2 14 0
	3 4 0		
Cash Discount, 4/- ...	0 4 0		
	£3 0 0		£7 4 0

Wholesale terms on application.

On and after December 4 prices will be increased by 50%

The CARMOL Manufacturing Co.

28 Bath Row

(also 137 & 138 Cregoe St.)

BIRMINGHAM

**OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)**

for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an enormous demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	... 1/-	... 7/6	} per doz. less 5 % discount
1/6	... 1/6	... 9/-	
2/6	... 2/3	... 15/-	
3/6	... 3/3	... 21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN,

DEVON WHARF,

Emmott Street, Mile End, London, E.1.

"MOOVIT" CORN PENCILS

are extensively advertised; if displayed in window or on counter with our attractive and striking showcard you will soon find a steady and progressive sale.

SPECIAL BONUS.

COST : 3 dozen at 11/6 - £1 14s. 6d.

1/2-dozen FREE.

SELLING PRICE :

3 1/2 dozen at 15/- - £2 12s. 6d.

Price 1/3, on P.A.T.A. List.

All goods are carriage paid. The time to order is now, while you have the matter before you.

TALBOT WILSON,

20 HIGHGATE ROAD, LONDON, N.W. 5.

**STIPENDUM
CORK
STOPPERS**

in
all sizes
suitable for
**KALIS, CITRATES,
DISPENSING, and all
FLUIDS.**

**STIPENDUM
COVERED POTS**

THE BEST FOR FACE AND TOOTH POWDERS
PASTES, AND OINTMENTS.

GREASE PROOF.

For Samples & particulars apply to
The
Stipendum Stopper Co.
1 Newman Street,
LONDON, W.
Tel. No. 3769
GERRARD.

'KO-TAL-KO'

**CERTAIN IN RESULTS
and
CERTAIN IN SALES**

THE PUBLIC WANT IT

For strong advertising has taught them its merits, and practical experience has proven its claims. "KO-TAL-KO" is the strongest recommended hair preparation on the market, and this, in conjunction with my widespread publicity, is the best of all reasons why

YOU SHOULD STOCK IT.

Apart from quick and ready sales my trade prices allow of a fair profit to you. "KO-TAL-KO" is always on the move, never cumbars the shelves long, and is a business asset of the highest value for your repeat orders are always warranted.

IT PROFITS EVERYONE.

"KO-TAL-KO" does justice to me, to you and to the public, and every Chemist and Druggist should order a supply.

ORDERS AND DETAILS
FROM

J. Hart Brittain

(Dept. C.D. 2), Ltd

2 PERCY ST., LONDON, W.1.

**RETAIL
PRICE
P.A.T.A.**

**5/- Size
12/6 ..**

**TRADE
PRICE**

**48/- per
doz.
112/6 ..**

DECEMBER

SALES ^{WILL} BE LARGE

Because there will be an extra spurt of advertising in the lay press, and in all advertisements there will be most prominently stated "Go to your Chemist's." Therefore be fully prepared for this. On top of this sales will be easier, and we want you to be good enough to distribute **One Dozen** tablets of Olive Oil Skin Soap of **superfine** quality among the buyers. **One tablet free to each purchaser of one dozen packets of**

QUIN-QUENNA

We wish we could give on lesser quantities but soap of the quality as we are giving is practically unobtainable and will be still more difficult at Xmas-time. Now here is an excellent chance of doing something that will please your customers. Don't forget that being rationed we have only a strictly limited number of tablets and they will be distributed amongst our chemist friends for just as long as they last.

Our offer is to send you, between NOVEMBER 15 and DECEMBER 14, **one gross Quin Quenna with 2 dozen bonus, one dozen daintily got-up Tablet of Margery Skin Food Soap Free, along with** some business-compelling coloured showcards, &c. Each carton is fitted with twin lids, both attractively illustrated in colour, forming a first-class window or counter attraction in themselves. The whole sent **Carriage Paid** to your address.

All you do is to show—the advertising does the rest.

On no account will this be extended beyond December 14.

NOTE AGAIN THIS SPLENDID PROFIT:

4/- PER DOZ. 6d. PER PKT. 43⁰/10 PROFIT

SEND IN AT ONCE AND
AVOID DISAPPOINTMENT
Remember the Date.

CHRISTY'S

Old Swan Lane - London, E.C.

XMAS OFFER

this year is to give to each of your best customers those who buy say one dozen packets a tablet of such quality as that to-day is virtually unobtainable—made from virgin olive oil—in short, this is it:

12 Doz. Quin - Quenna

2 " Bonus Free

1 " Olive Oil Soap

Superfine Quality—Free.

We shall supply these parcels so long as Soap stock lasts, and will support each lot with all the necessary advertising material for your window and counter.

**CARRIAGE PAID
AT ONCE.**

Transparent Teats

For Old-fashioned Tube Feeding Bottles.

Small Size, 1 hole, per gross **6/6**

Medium " " **9/-**

Minimum quantity, 1 gross lots, post paid.

ENEMAS

Best Black Seamless.

Boxed with Fittings

27/- & 33/-

per Dozen.

THOS. SWALES,

DRUGGISTS' SUNDRYMAN,

24 Butts Court, and 89 Albion St., LEEDS.

Telephone No. 22260.

The Mark of



Quality

Reliability

Registered Trade Mark

ELLIOTT OPTICAL CO.

(Proprietor: GUY E. DRUIFF)

104/5 Gt. Saffron Hill,
LONDON, E.C. 1.

FREDK. FINK & CO.,

10 & 11 MINGING LANE, LONDON, E.C.

SPECIALITIES.—Gums Arabic and Tragacanth as Imported or finely powdered.**SHADEINE**

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.

Trial Size 6d., per post 10d.; Medium, 1/4, per post 1/7; Large, 3/6, per post 4/8d. size, 6/- doz.; 1/4 size, 12/- doz.; 3/6 size, 33/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.**E. CRAWSHAW & CO.,**

56 Great Dover Street, S.E.

ANILINE DYE MERCHANTS,

are still selling their well-known Aniline Dyes to retail in Penny Packets.

Telephone: Hop 4992. Teleg. Address: "Cachous London."

**CACHETS "FINOT"**(White or Coloured),
With Inscriptions in any desired tint; also Plain or Embossed."Beautifully made and the inscriptions give them a distinction all their own."—C. & D.
"Perfection of Cachets."—Lancet.These Cachets are especially adapted for Headache, Neuralgia and other powders.
COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.
In 17 Sizes, to fit the various types of Cachet Machines.**John E. Raworth,**

Chartered Patent Agent,

The Old Mansion House,
73 Cheapside, E.C. 2.

AND

Queen Anne's Chambers,
Westminster, S.W. 1.**PRECIPITATED CHALK.**

Lightest and Whitest, also Purest Dense.

APPLY TO

AUG. LEVERMORE & CO. Ltd., 8-10 Ct. St. Helen's, LONDON, E.C.

Telegrams: "LEVERMORE LONDON." Téléphone: 4613 Centr.

RUBBER GOODS

(FOR ALL KINDS OF SURGICAL)

TRY: JAMES TOMPKINS, LTD.*The Rubber House,*

386 City Road, LONDON, E.C. 1. ESTABLISHED 1877

Van Horn and Sawtell

—LONDON AND NEW YORK—

MAKERS OF

"K-Y" LUBRICATING JELLY

IN COLLAPSIBLE TUBES AND OF

Van Horn "Sterile Sutures and Ligatures"

IN GLASS TUBES — PRICES ON APPLICATION

81-83 HIGH HOLBORN, W.C.

ROYAL COURT HAIR DYES

Notwithstanding the shortage of supplies, we are still in a position to supply all orders and guarantee our preparation to be exactly the same as pre-war recipes. Own-named brands a speciality. Largest profit, and most reliable Hair Dye yet produced.

J. KNOX WALKER & Co. Ltd., 422 Kingsland Rd., London, E. 8.**QUIN-QUENNA**

Merely show to sell.

4/-

PER DOZ.

SPECIAL XMAS PROPOSITION.

It's briefly this. 12 doz. Quin-Quenna, 2 doz. Bonus, and 1 doz. "Margery" Skin Food Soap free. The latter to be distributed among your customers by yourself. ALL SENT CARRIAGE PAID. Open only until 15th December, no orders executed afterwards. Advertising goes on as usual.

NOTE THE LIBERAL P.A.T.A. PROFIT.
THOS. CHRISTY & CO., 4/12 Old Swan Lane, F.C. 4**6d.**

PER PKT.

CASEIN**ALIMENTARY AND INDUSTRIAL****Dairy Produce Importers.**
NIEUWHOF, SURIE & CO., LTD.

Head Office: 5 LLOYD'S AVENUE, LONDON, E.C. 3.

Proprietors of Aldgate Casein Works.

TELEPHONES - - AVENUE 34 & 35
TELEGRAMS - - "SURICODON" LONDON.**NELSON'S
STYPTIC PENCILS**

Indispensable in Shaving. Stop Flow of Blood at once.

RETAILED 6d. EACH.

A BOON
TO
SHAVERS.**3/6**

PER DOZ.

Stocked by all Sundry Houses.

INVALUABLE
FOR INSECT
BITES.

Sole Proprietor:

JOHN LORIMER,

10 CITY ROAD, LONDON, E.C. 1.

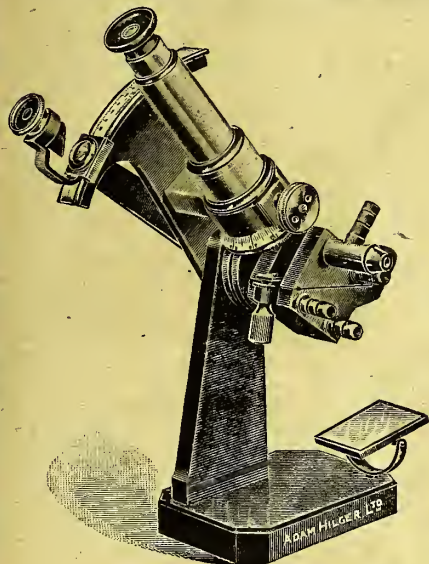
Telephone: 2215 London Wall,

Cable Address: "Selgog London."

Mustard?—Yes! Rigollot's Mustard Leaves
for Plasters. The original and only
genuine.OF ALL CHEMISTS AND STORES IN
6d. & 1/- Packets and 1/6 Tins.**67 Southwark Bridge, London, S.E.**

YOU MUST ADOPT SCIENTIFIC METHODS

or take the consequences in the competition that is coming.



THE ABBE REFRACTOMETER

is a valuable aid towards maintaining uniform strength in pharmaceutical products (solutions, syrups, etc.), and much quicker than taking the dried weights or specific gravities.

Yet, compared with the average cost of a piece of machinery, the price of the Abbe Refractometer is insignificant.

The instrument is extremely simple to use.

Delivery in four weeks from receipt of order.

New Descriptive Booklet post free from the Makers:

ADAM HILGER, LTD.,

75a CAMDEN ROAD, LONDON, N.W. 1.

Telephone: NORTH 1677-8.

Telegrams: "SPHERICITY, PHONE, LONDON."

WRITE for our SEASON'S LIST

OF BRITISH-MADE POCKET-LAMP CASES, BATTERIES, and ELECTRICAL NOVELTIES.

THESE PRICES ARE TYPICAL OF THE VALUE WE OFFER IN POCKET LAMPS COMPLETE.

Fitted with 1½" Lens, Patent Precision Switch, Metal Filament Bulb, and best Battery.

# Description.	List No.	Per doz. complete.
Popular quality, assorted covers, polished fittings	903	27/- net.
Medium quality, leatherette covers, nickelled fittings ...	905	32/- net.
Superior quality, best leatherette covers, & heavily nickelled ...	904	36/- net.
De Luxe quality, selected leather covers, and heavily nickelled	20	48/- net.

IMPORTANT.—We can supply the above qualities fitted with 1½ in. lens as follows:—

Popular, No. 310,	25/-	Doz. net.!
Medium, No. 325,	30/-	" "
Superior, No. 324,	34/-	" "
De Luxe, No. 423,	44/-	" "



Flash Lamp Bulbs.

Customers should write at once for New List, and place orders promptly for Flash Lamp Bulbs.

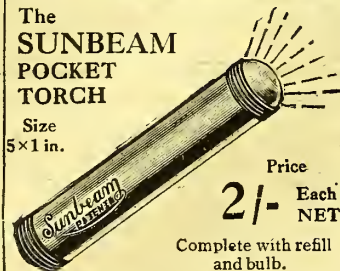
Best Quality
3½ volt Bulbs,
6/- doz. net.

Spare Best Quality 'VOLEX' British Made POCKET LAMP BATTERIES 12/- doz. net.



The SUNBEAM POCKET TORCH

Size 5x1 in.



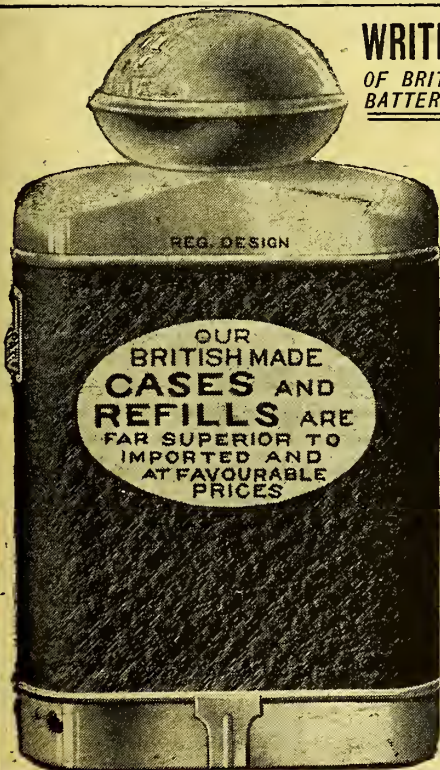
Price 2/- Each NET

Complete with refill and bulb.

Spare Batteries, 13¼ doz.

The most reliable Torch of convenient size ever offered. Gives a brilliant light that in ordinary use will serve for six months. Neat attractive appearance. All metal finish.

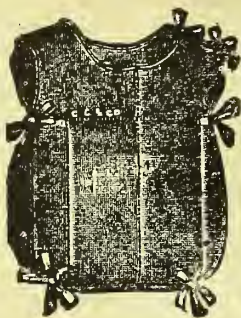
Ward & Goldstone
SALFORD MANCHESTER



LIST NO. 905.

Remittance with Order will ensure Prompt Dispatch.

Winter's Chills will soon be here, therefore stock

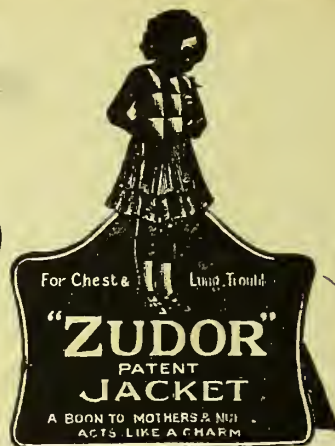


"ZUDOR" JACKETS

Made in six stock sizes.
Any special size made to order.

SHOWCARDS
AND
ADVERTISING MATTER
SUPPLIED
WITH EACH ORDER.

IN TWO QUALITIES.



Facsimile of Showcard.

No.	Across chest		Shoulder to waist		COTTON	WOOL.	LAMB'S	WOOL.
					Per doz.	Retail each	Per doz.	Retail each
1	...	8 in.	...	6 in.	9/6	1/3	16/-	2/-
2	...	10 in.	...	8 in.	12/-	1/6	20/-	2/8
3	...	12 in.	...	10 in.	16/6	2/-	24/-	3/4
4	...	14 in.	...	12 in.	20/6	2/6	28/-	4/-
5	...	16 in.	...	14 in.	25/-	3/-	32/-	5/-
6	...	18 in.	...	16 in.	30/-	3/9	40/-	5/6

Owing to the exceptionally large call we are having for "ZUDORS," we would advise Customers to order NOW.

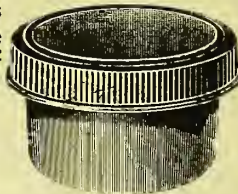
CUXSON, GERRARD & CO., Ltd., **OLDBURY & BIRMINGHAM.**

We are making Lamp-blown Glassware, such as Ampoules, Hypodermic Tubes, &c., in England. Let us have your inquiries. You will find our prices competitive and



our deliveries smart. Besides we also have varied stocks of Glass Bottles.

Send us your inquiries and ask for our Stock List.



Sole Agents for the

"SOLIDITE"

Composition Corks, made in various sizes and colours. Samples and prices will be sent on application.

JULES LANG & SON, Charlton Works, Charlton Place, ISLINGTON, LONDON, N.1.

Telegrams: "Assorted, Nordo, London." Telephones: North 1344-5 (2 lines)

Sole Proprietor:
FERNAND RENÉ LANG.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounces. 6 and 8 ounces.

WHITE PHIALS, plain or teaspoons.
1 ounce. 1 1/2 ounce.

Lowest
Market
Prices
Charged.

BLUE LOTION BOTTLES, all sizes.

CORKS. Superior Quality. No advance in price.

6 and 8 ounce ... 1s. per gross, in 6 gross bags.
Vials ... 10d. per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars on application.

I. ISAACS & CO., Glass Bottle Manufacturers,

106 Midland Road, St. Pancras, London, N.W. 1,

or ISLINGTON BOTTLE COMPANY,

7 New Inn Yard, Tottenham Court Road, London, W. 1.

Orders sent to either establishment have attention.

Established 100 Years.

Branches: London County and Westminster Bank, Bloomsbury Branch.

GOOD SELLING LINES, GOOD PROFITS,
AND ABSOLUTE SAFETY IN STOCKING

"HOBSON'S CHOICE" FEET PLAISTERS AND POWDERS

STOCK IS RETURNABLE AT ANY TIME, FOR
ANY REASON, AND FULL PRICE REPAID.

For Prices and Samples apply to

HOBSON, TRIMBLE & CO., LTD.
Union St., and Market, LEEDS.

SAVE 3/- PER GALLON

BY BUYING

GUARANTEED GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL"

Tel. 1039 CENTRAL

And of ST. JOHN'S, N.F.

Established 1780.

BISHOP'S PIPERAZINE CITRATE

A REMEDY OF ESTABLISHED AND DEFINITE VALUE

**IN GOUT, LUMBAGO, SCIATICA, NEURITIS, GRAVEL, STONE,
AND ALL MANIFESTATIONS OF THE URIC ACID DIATHESIS.**

Prescribed by the British Medical Profession for 20 years.

The undoubted superiority of Bishop's Piperazine Citrate, and preparations containing it, is due to the stability of the salt, Piperazine Citrate, which, being non-volatile and non-hygroscopic, undergoes no change upon exposure to heat or moisture, and thus lends itself to all manufacturing and dispensing processes.

Piperazine base, on the contrary, is so volatile and hygroscopic that it cannot be manufactured or dispensed with any degree of accuracy. Hence the unreliability of all Piperazine preparations that are not made with Bishop's Piperazine Citrate.

**PIPERAZINE CITRATE
IS MADE ONLY BY
ALFRED BISHOP, LTD.**

Bishop's Piperazine Citrate is the most powerful uric acid solvent known. It neutralises twelve times as much uric acid as any other alkaline solvent, and the resulting Piperazine urate is eight times as soluble as any other urate.

Bishop's Piperazine Citrate is non-irritant and non-toxic. It does not derange the digestive functions and is easily borne by even sensitive stomachs.

Bishop's Piperazine Citrate is supplied in crystalline powder for dispensing, and also in the

Granular Effervescent form and Varalettes. The value and reliability of these preparations have been established by abundant clinical experience.

Prices and Particulars on application to—

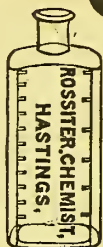
ALFRED BISHOP, LTD.

**MANUFACTURING
CHEMISTS,**

48 SPELMAN STREET, LONDON, E.1.

GLASS BOTTLES

**WHOLESALE
and EXPORT**



Medical Flats { Best Quality, Quinine Tinted.
Pale Tinted, 2nd Quality.
Panels „ Pale Green.
Vials, White Flint. All sizes.
Poisons. Actinic Green, Blue or Amber.

SAMPLES AND PRICES UPON APPLICATION TO—

FARROW & CO., 87 Borough High Street, LONDON, S.E.

Telephone—HOP 3222.

The BRADFORD WOOL EXTRACTING Co. L^{td}.
are **ACTUAL MANUFACTURERS** *of*

PHENACETIN



SALICYLIC ACID

Telephone No. 2638

PIT LANE MILLS, BRADFORD.

Teleg. "Production."

ROBT. BAILEY & SON,

SOLE PROPRIETOR: A. BAILEY.

**Marriott Street Mills,
STOCKPORT.**

Telephone No.
STOCKPORT 694.

Telegrams:
"UNDISPUTED STOCKPORT."

MANUFACTURERS OF

**SURGICAL DRESSINGS
ABSORBENT GAUZE TISSUE,
COTTON WOOL, BANDAGES.
LINT, TOW, &c.**

**PATENT FOUR-PLY GAUZE.
SANITARY TOWELS.**

**BRITISH MADE
AND
BRITISH OWNED.**

WHOLESALE ONLY. Write for Samples and Prices.

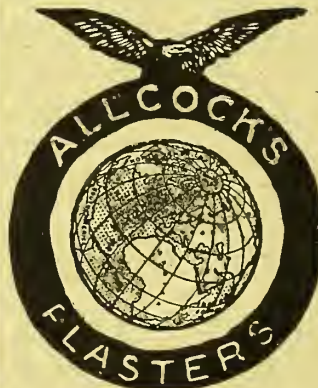
ESTABLISHED 1847.

**Allcock's
PLASTERS**

A REMEDY OF 70 YEARS' STANDING.

**Allcock's Plasters
Allcock's Corn and
Bunion Plasters
Brandreth's Pills**

*The
Three
Reliables.*



Prices and Terms
on
application to

**ALLCOCK . . .
MANUFACTURING
COMPANY . . .**

**22, Hamilton Sq.,
Birkenhead,
England.**

"Sold all round the World."

STOVAINE

THE LEAST TOXIC OF LOCAL ANÆSTHETICS
USED IN THE SAME WAY AND AS EFFICACIOUS AS COCAINE

Does not create a habit and does not give rise to headaches,
nausea, vertigo or syncope. :: :: *Literature on demand.*

NO HOME OFFICE LICENSE REQUIRED

Cheaper than Novocain and Benzocain and obtainable promptly
in practically unlimited quantities from the manufacturers :

LES ETABLISSEMENTS POULENC FRÈRES
92, RUE VIEILLE DU TEMPLE, PARIS.

The New PURE LIQUORICE Juice.

APOLLO

Made by the Largest Liquorice Manufacturers in the World. Is the concentrated extract of the richest root. Contains no added substance whatever. It is very soluble, smooth to the tongue, and entirely free from grit. It is made where the root grows, under supervision of British staff. Is not a sweetmeat but a high-class Pharmaceutical article.

"APOLLO" IS VERY HIGH IN GLYCYRRHIZIN.

The makers of "APOLLO" Stick Juice, who are also makers of the old-established brands of "V.B." and "B.X." Block Juices, much regret the stoppage of their shipments due to the War. They are, however, glad to assure their buyers that large stocks of Liquorice Root have been accumulated in the interval, so that manufacture will proceed rapidly as soon as hostilities cease.

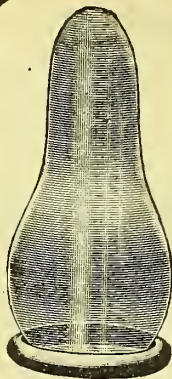
MACANDREWS & FORBES, Ltd., 2 Broad St. Place, LONDON, E.C. 2
ESTABLISHED 1857.

EVERYONE WANTS THE BEST FOR BABY

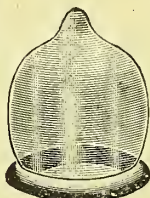
THAT'S WHY EVERY TRADER, RETAIL AS WELL AS WHOLESALE, CAN DO SUCH EXCELLENT BUSINESS IN

OYLER'S

SEAMLESS RUBBER TRANSPARENT TEATS



No. 41.



No. 35.

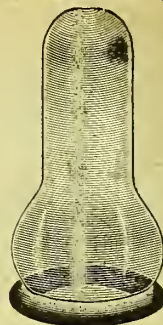
THE BEST BY EVERY TEST.

British owned and British made by British labour from finest quality rubber produced in the British Isle of Ceylon, manufactured by latest improved processes invented and perfected by Britishers.

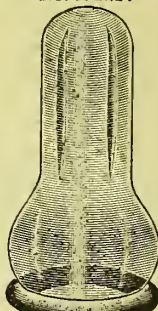
Teats perfect for toughness and suppleness, easiest to clean and sterilise, most hygienic, stand boiling, best for all climates.

WHOLESALE, FACTORS & SHIPPERS CAN SECURE EXCLUSIVE TERRITORIES, & TEATS OF SPECIAL DESIGN FOR ANY SPECIAL MARKET.

Retailers should write for full details and samples.



No. 10 N.P.



No. 10 N.R.



35 New Cavendish St., HARLEY STREET, LONDON, W. 1.

Wires: "Oylerism, Wesdo, London."


Phone: Mayfair 681.

RENDELL'S

SOLUBLE QUININE PESSARIES.



THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in **RED INK**, are upon each box thus:

Registered
Trade Mark, 
without which
none are genuine.
No. 182,688.

W. J. Rendell
No. 182,688

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

IMPORTANT NOTICE AND CAUTION.

Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of W. J. RENDELL, "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

W. J. RENDELL,
INVENTOR AND SOLE MAKER,
15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.

Did You Notice This in C. & D., Oct. 19, 1918, Page 43?

ASPIRIN TABLETS

"Our subscribers should beware of certain Aspirin tablets which are being offered for sale on a large scale at the present time, not only to large retail buyers, but to wholesale houses. A sample of these tablets offered recently as containing 5 grains of Aspirin (acidum acetyl-salicylicum, B.P.) was found to contain only $3\frac{1}{2}$ grains of Aspirin, the weight being made up with French chalk, starch, and a reducing sugar. This fraud is likely to entail unpleasant consequences to those who do not carefully examine the tablets offered."

Such an attempt to make the retailer the means of foisting this fraud upon the public is monstrous.

It is also a warning.

Perfect safety, enhanced reputation and improved goodwill are secured by those who sell—

TRADE MARK **'TABLOID'** BRAND **Aspirin**

It carries Burroughs Wellcome & Co.'s guarantee that each product is prepared from acetylsalicylic acid of the highest possible purity, contains the full stated weight of the pure acid, and is free from objectionable admixtures such as talc or boric acid.



BURROUGHS WELLCOME & CO., LONDON

G 800

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OUR STANDARD EMULSION *of* COD LIVER OIL

(Season 1918-19).

If your Standard is high in what constitutes an Ideal EMULSION.—

If your Judgment is sound and you are able to appreciate the highest in quality and value, then we welcome your inquiries and criticisms, and cordially invite you to write for samples and prices. We have several styles, of real forceful selling value, which have

CHARACTER AND DISTINCTION

that give satisfaction to your customer and prestige to the retailer.

OUR STANDARD EMULSION is made from PURE COD LIVER OIL, and has OUR GUARANTEE BEHIND IT.

CUPAL Ltd., Blackburn

COMPULSORY TESTING OF CLINICAL THERMOMETERS

In accordance with the new Ministry of Munitions
of War order

G. H. ZEAL,
82 TURNMILL STREET, LONDON, E.C.1,

begs to advise his numerous customers that in future all Clinical Thermometers supplied by him will be tested and marked by the National Physical Laboratory. Any stock held by customers on Nov. 20, 1918, not so marked should be returned to above address, carriage paid, to be duly tested and marked N.P.L.

Telephone Central 12438.



A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in Australia, New Zealand and South Africa.

SUBSCRIPTION RATES.

FIFTEEN SHILLINGS a year payable in advance to any part of the world including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy, 6d.; *Diary* 3s. 6d. post free. Postal orders and cheques should be crossed "Martin's Bank (Ltd.)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 15s., franco.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 15 ch., franco.

Terms for advertising may be obtained on application to the Publisher
Head Office: 42 CANNON STREET, LONDON, E.C. 4.
Telegrams: "Chemicus. Cannon, London." Telephone Central 3617 (three lines).
Branch Offices: MELBOURNE AND SYDNEY, AUSTRALIA.

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Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Sunday, November 10.

United Arts and Kensington Volunteer Rifles, "B" Company (Pharmacists). At 10 A.M., company parade at headquarters (Imperial College Union, South Kensington, S.W.). (November 13 and 14, platoon parades at headquarters, 3 P.M.)

Tuesday, November 12.

Oldham Pharmaceutical Association, Café Monico, Union Street, at 8 P.M. Address by Mr. J. Rymer Young, member of the Pharmaceutical Council.

Wednesday, November 13.

Manchester Pharmaceutical Association, Chess Club Rooms, 65 Market Street, at 3 P.M. Mr. W. S. Glyn-Jones, M.P., Secretary and Registrar of the Pharmaceutical Society, on "Pharmaceutical Organisation."

Sheffield Pharmaceutical and Chemical Society, Literary and Philosophical Society's Rooms, Church Street, at 8.30 P.M. Mr. F. Pilkington Sergeant on "The Present Situation in Pharmacy."

Leeds Chemists' Association. Address by Mr. John Keall, member of the Pharmaceutical Council.

Edinburgh Chemists', Assistants', and Apprentices' Association, 36 York Place, at 7.30 P.M. Mr. H. Stout, Ph.C. (President), lantern lecture on "Plant Nutrition."

Thursday, November 14.

Harrogate Pharmaceutical Association. President's address and smoking concert.

North London Pharmacists' Association, Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, London, W.C., at 3 P.M. "The Jubilee of the Pharmacy Act, 1868," by Mr. S. W. Woolley, Editor of THE CHEMIST AND DRUGGIST.

European War News.

Import and Export Notices.

RUSSIA.—Applications will be considered by the United States War Trade Board for the exportation of all commodities to Russia, under a new ruling (W. T. B. R. 257), which was promulgated on October 10.

UNITED STATES.—Salicylic acid and methylated spirit have been added to the American export conservation list, according to an announcement made by the War Trade Board. This change is effective October 10, 1918.

Steps to Victory.

An armistice has been concluded between the Allies and Austria-Hungary, which came into force on November 4. The other Allies of Germany who have also surrendered are Bulgaria and Turkey, the dates of the armistices being September 29 and October 30 respectively.

Personalia.

LANCE-CORPORAL F. ATHA has been awarded the Military Medal. Prior to enlistment Lance-Corporal Atha was with Taylors' Drug Co., Ltd., at Great George Street, Leeds.

SECOND-LIEUTENANT R. A. RICHEY, Royal Irish Fusiliers, who was recently reported killed in action (C. & D., November 2, p. 39), is officially reported to be a prisoner of war in Germany.

PRIVATE WILLIAM BOOTH, King's (Liverpool Regiment), is a prisoner of war in Germany. Private Booth, who served his apprenticeship with Mr. C. O. Wain, chemist and druggist, Haslingden, has been wounded four times.

LIEUTENANT GUY W. WAREING, R.A.F., has been awarded the Distinguished Flying Cross. Lieutenant Wareing, who has brought down eight enemy aeroplanes, enlisted in October 1914 from the laboratory of Joseph Crossfield & Sons, Ltd., Warrington.

SECOND-LIEUTENANT J. J. LAWS, Royal Fusiliers, was wounded in France on October 17, and is now in hospital in England, progressing favourably. Second-Lieutenant Laws, whose marriage was recently announced (C. & D., June 1, p. 39), is a son of Mr. J. J. Laws, pharmacist, managing director of Ralph Hall, Ltd., Kingsland Road, London, E. 8. His brother, Mr. F. P. Laws, is a cadet at the Royal Military College, Sandhurst.

Miscellaneous.

ORANGES AND LEMONS.—Maximum prices for oranges and lemons will be fixed by an Order about to be issued.

KEEPING IN TOUCH.—Mr. Henry M. Whepley, St. Louis, Mo., suggests that to keep alive the fraternal spirit and at the same time aid recruits in developing military efficiency there is nothing better than frequent letters of a cheerful, newsy character. This will contribute to contentment and encourage ambition. Show them, he writes, that we still think of them as pharmacists, and are writing because they belong to our calling. This will cause them to place a new value on pharmacy. We should have had a pharmaceutical corps in the Army to-day if pharmacists of the past and of this generation fully valued the possibilities of the calling.

COCOA-BEAN SHELL.—An Order has been issued entitled the Cocoa Bean Shell (Requisition) Order, 1918, under which the occupier of every factory in which raw cocoa-beans are used is required to place at the disposal of the Food Controller the whole of the output of cocoa-bean shell which he had in stock at the close of business on November 2, or produces after that date. Maximum prices for the commodity having recently been fixed by the Cocoa Powder (No. 2) Order, 1918, the cocoa-shell will be taken over from manufacturers and distributed to dealers for sale in accordance with these prices, mainly as an ingredient of cattle-feeding stuffs.

CHINESE OPIUM.—According to a Reuter's telegram from Peking, the Chinese Press appears to have entirely abandoned the agitation against opium, but active opposition is being prepared with a view of stirring up the flagging zeal of the Chinese in this most important question in the history of China. Reports from the interior agree that smoking has not shown much increase, but the cultivation of poppy is becoming general, and enormous quantities are being grown in Manchuria, Heilung-kiang, Shensi, and Yunnan, while morphine is being imported in vast quantities through Tairen. The proceeds of the recent opium deal are still in Shanghai, and large imports have been added from Hong-Kong. If the Chinese public do not take up the matter, foreign sympathisers can do little. President Feng Kuo-chang has officially denied to a member of the American Legation that he is in any way connected with the deal, and he is bound to support that statement officially.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

QUALITATIVE ANALYSIS.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopoeia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Tuesday, November 12, on which day the samples will be posted. Students' reports will be received up to Saturday, November 23. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the opening exercise in

THE ANALYTICAL TOURNAMENT

for the current winter session. Students may forward six stamped addressed envelopes (marked on the top "Corner for Students"), to be utilised month by month for the "salts." We offer special certificates and prizes for the best series of reports submitted on the exercises to be set from November 1918 to April 1919 inclusive. The awards will be made to the students who obtain the highest aggregates of marks for their reports upon the whole six exercises, and will comprise:

First Prize.—Certificate of honour and books to the value of two guineas.

Second Prize.—Certificate of honour and books to the value of one guinea.

Third Prize.—Certificate of honour and books to the value of half a guinea.

The competition is open to all pharmacy students who have not passed the Major examination in Great Britain or the Licence examination in Ireland. Former tournament prize-winners are disqualified from taking a tournament prize, unless it be a superior one to that previously gained. Besides the tournament prizes, the usual monthly awards will be made to junior students, viz.:

First Prize.—Books to the value of 10s. or thereabouts.

Second Prize.—Books to the value of 5s. or thereabouts.

These monthly prizes will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact must be attested on their reports. Students who adopt a *nom de plume* must adhere to it throughout the tournament.

Report on the October Analytical Exercise.

The powder distributed to students on October 8 contained five parts by weight of zinc hydroxycarbonate, four parts of magnesium hydroxycarbonate, and one part of sodium metarsenite. The calculated composition of such a mixture is:

Zn	...	...	...	...	28.7
Mg	...	...	...	...	10.2
Na	...	...	...	...	1.8
CO ₃	...	...	...	...	27.5
AsO ₂	...	...	...	...	8.2
OH	...	...	...	...	13.5
H ₂ O	...	...	...	...	10.1
					100.0

The powder also contained, as impurities, recognisable traces of iron and of the hydrochloric and sulphuric acid radicals.

Samples of the powder were distributed to forty students, and thirteen reports were submitted for examination. The writers of these reports all detected the carbonic acid radical. The failures in the detection of the other main constituents were: Zinc, 2; magnesium, 4; sodium, 2; arsenious acid radical, 7. Of the seven students who failed to report an arsenite, four detected arsenic, but did not indicate in what condition it was present. Six students failed to observe the evolution of water, amounting to about

one-sixth of the weight of the powder, when the latter was heated in a dry test-tube.

This exercise was free from complication in connection either with metallic or acid radicals, and the proportions in which the main constituents were present were sufficiently large to ensure the ready detection of these when moderate care and adequate knowledge were brought to bear upon the analysis. This being so, the failures recorded above may be attributed to insufficiently close observation, to incorrect interpretation of the reactions actually observed, or to limited experience in carrying out the analysis of complex mixtures. The two latter causes tend gradually and almost automatically to become less evident in individual cases by the continued practice of analysis, whereas the first requires to be taken in hand seriously by the student and dealt with as a blemish to be removed. In the perusal of a series of reports, one of the most striking features to be noted is the large number of omissions to describe easily recognisable results of the operations that have been carried out, and the unavoidable conclusion is that these results are unreported because they have escaped observation. Some illustrative examples of this are alluded to in certain of the replies to correspondents below. These replies also embrace remarks which are applicable to other students besides those to whom they are directly addressed.

PRIZES.

The First Prize for the best analysis has been awarded to GILBERT EVANS, 47 Upper Perry Hill, Southville, Bristol.

The Second Prize has been awarded to MONTAGUE THOMAS WATSON, 16 Hastings Road, West Ealing, W. 13.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

Wilma (non-competing) ...	97	Savage ...	...	67
G. Evans (1st Prize) ...	94	Metol ...	...	65
M. T. Watson (2nd Prize) ...	89	Gingerol ...	...	62
Amethyst ...	84	Joshua ...	...	54
Mae ...	82	J. W. E.-H. ...	...	39
Melonia ...	73	T. W. Reed ...	...	29
Serum ...	69			

TO CORRESPONDENTS.

WILMA.—A very satisfactory report.

GILBERT EVANS.—Note that both silver phosphate and silver arsenite are yellow, and that both are soluble in dilute nitric acid and in ammonia.

M. T. WATSON.—The powder was partially soluble in water. Careful examination failed to furnish confirmation of the traces of potassium and of the nitric acid radical.

AMETHYST.—Although you found that the powder did not char when heated by itself, you concluded from another test that it contained a citrate. The reaction which you attributed to a citrate was probably due to the arsenite. Note that when an arsenite is boiled with nitric acid and ammonium molybdate, a yellow precipitate may be obtained owing to the arsenite becoming oxidised to the arsenic condition.

MAC.—Magnesium sulphate is ordinarily useless as a test for a carbonate; but even if this were not the case, how could it or any other reagent furnish information of value as to the presence or absence of a carbonate in the original powder when added to a solution prepared from the latter by boiling with water and sodium carbonate? Silver arsenate is brown, not yellow.

MELONIA.—A careful preliminary examination should have revealed the presence of arsenic. We cannot understand how you failed to detect it either in the preliminary or in the systematic testing.

SERUM.—It is not clear what your difficulty was in the zinc group. The white precipitate which you got with potassium ferrocyanide was zinc ferrocyanide. While you report "nil" as the result of heating the powder in a dry tube, others observed the evolution of water and the change of colour of the powder to yellow, while hot.

SAVAGE.—The apparently abundant precipitate which you obtained when testing for a chloride with silver nitrate must have been due to introduced impurity. The powder gave only an indication of a faint trace of a chloride.

METOL.—You report filtering at several places where there were no precipitates: surely this was a too slavish

adherence to tabulated instructions. Consider the significance of the operations you carry out.

GINGEROL.—You state that the aqueous extract from the powder was acid to litmus, whereas it was really alkaline. It is not apparent how you failed to obtain a precipitate of zinc sulphide, as your group-testing up to and including the zinc group seems to have been all in order. Read also the reply to "Savage."

JOSHUA.—The precipitate you suspected to contain manganese consisted of zinc sulphide only. Since the phosphoric acid radical was absent, the precipitation of the magnesium at the usual place is explained, although your conclusion that a phosphate was present is not. Ammonia from some external source may have reached the litmus paper with which you were testing for the evolution of ammonia from the powder.

J. W. E.-H.—Some of the reactions you report are very puzzling. The hydrogen sulphide precipitate behaved as cadmium sulphide should behave, and not as arsenious sulphide should, while blowpipe and charcoal tests pointed to cadmium, and not to arsenic. You should prepare a mixture for yourself in imitation of the powder supplied and practise upon it until you trace the cause of these discrepancies.

F. W. REED.—You omitted any preliminary examination, and doubtless this explains some subsequent failures. Arsenic and zinc could scarcely have remained undetected had you carried out a few simple dry-way tests. Follow the advice given in the last sentence of the reply immediately preceding.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Guardians' Affairs.

Edmonton Guardians have accepted the following tenders: Corbyn, Stacey & Co., Ltd., Duncan, Flockhart & Co., Burgoyne, Burbidges & Co., Ltd., Bellingham & Co., Ltd., Coleman & Co., Ltd., and Parke, Davis & Co., drugs; A. E. Braid & Co., Ltd., May & Baker, Ltd., S. Maw, Son & Sons, Ltd., and Arthur Berton, Ltd., surgical dressings, etc.; The "Sanitas" Co., Ltd., and Newton, Chambers & Co., Ltd., disinfectants.

The Local Government Board has sanctioned the proposal of the Edmonton Board of Guardians to increase the salary of Miss H. Martin, dispenser, to 135*l.* 12*s.* plus 15*l.* 12*s.* war bonus.

Birmingham.

Irish moss is being sold in Birmingham at 42*s.* a cwt. for feeding pigs and calves.

Alfred Bird & Sons, Ltd., have contributed 105*l.* to the Lady Mayoress's War Fund.

The Birmingham City Council calls attention to the Rats Order, 1918, in the local Press. Birmingham is believed to be a paradise—if not the Paradise—for rats.

The specific gravity of Birmingham ale is so low, just now, that everyone saw the point when a wag chalked on the walls of a local brewery, "Birmingham's New Water-works."

"The Genus Rosa," a work in two volumes by Ellen Willmott, with drawings by Alfred Parsons, R.A., has been presented to the Birmingham Reference Library by a local medical man.

A meeting of the Birmingham Chemists' Field Ambulance was held on November 3 for the purpose of disbanding the corps. A resolution to that effect was carried unanimously, after a cordial letter from the commandant, Lieutenant-Colonel T. J. Morrison, had been read.

Liverpool.

Biliousness is a common ailment for which specifics are being increasingly sought.

Mr. Harry Stockdale, of 12 Mallaby Street, Birkenhead, who has been in business since 1905, has had temporarily to close his pharmacy as, together with his wife and family, he was down with influenza.

The death has taken place of Mr. Fairbanks, who served his apprenticeship with Mr. Henry Peet and was for over twenty-five years an assistant with the late Mr. T. A. Hay and subsequently with his executors.

Owing to the shortage of cinnamon tablets and the kindred articles pressingly in demand, the city and district travellers of wholesale firms have acted as collectors of residues of stocks from retailers, in order to supply urgent orders for prescriptions.

A study in psychology may often be made at the counters. Customers come, almost in a stream, asking for camphor. Reluctantly, if at all, they will admit that they intend to use it as a preventive of the "flu"; but even when driven from the refuge of concealment, they do not acknowledge any shaking of their belief. "Better stand on a hot iron than on camphor," commented one irate pharmacist.

A well-dressed and passably-educated woman of middle age entered a central-area pharmacy this week with the request, "I want a linseed poultice, which my doctor says can be supplied by any chemist and druggist." Fifteen minutes were expended before the customer could be persuaded that linseed poultices could not be bought and taken home hot, and that half a pound of crushed linseed used as instructed would suffice.

Nottingham.

There is a large turnover in quinine and so forth, attributable partly to nervous apprehension. On the other hand, the increase in prescriptions for panel patients has not yet become abnormal.

Members of the local Pharmaceutical Association are finding it impossible to fulfil their project for the entertainment of wounded soldiers, owing to the influenza epidemic. Military patients from the hospitals in the city and district are now forbidden to be out in the evenings, which means that for the present they are unable to attend entertainments. Chemists here are determined to make up for the delay as soon as possible.

In spite of the pharmacists in the city favouring from most standpoints the idea of earlier closing, it has not been found practicable to adopt any uniform system. Many shops in the centre close an hour before the time formerly observed, but those in the suburbs are faced with a serious difficulty. Insurance dispensing makes it necessary that medicines should be obtainable in the evening. Within the limits of official Orders the matter is left to each individual to arrange according to circumstances.

Salford.

A large display of Horlick's Malted Milk can be seen in a sweet-shop window in the locality, but chemists cannot get any.

Fennings' Fever Curer is one of the missing proprietaries that are in constant demand. In its absence pharmacists are doing their best by the light of reason—and experience.

Three pharmacy windows have lately been broken in the borough—those of Messrs. Evans, Whit Lane, Jeans & Co., Broad Street, Pendleton, and Walton, Higher Broughton. In one case a woman was injured.

There are a good many inquiries for Ellimans', but there is none for sale. As most of the inquirers are men, it is not difficult to satisfy them. This difference between the mental habits of the sexes bids fair to outlast all the others.

A Salford chemist, being unable to get a qualified man for his branch shop, has covered "Cash Chemists" on the signboard with "Drug Stores." He has also—though perhaps for a different reason—removed the advertisement he had on the window stating that he held the largest stock of patent medicines in Salford.

An inquest was held on October 29 on the body of Mr. Thomas Saner Hamilton, chemist and druggist, 135 Eilor Street, Pendleton. Evidence was given to the effect that Mr. Hamilton, who was anxious concerning the illness of his wife, shot himself in his shop early in the morning on October 28. A verdict of "Suicide" was returned. Mr. Hamilton, who was in business before August 1, 1868, was an active man and fond of walking. He leaves no children.

Sheffield.

Mr. Thos. Dobb, Ph.C., and Mr. J. B. Armitage, manager, have been made directors of the newly formed company of J. T. Dobb & Son, Ltd.

Defective transport has much handicapped chemists during the epidemic, during which the weekly death-rate for Sheffield has risen to 86.2 per 1,000. There is a feeling that non-combatant chemists might well be released from the Army.

Miscellaneous.

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS.—A meeting of the members of this Association is to be held on November 20 at Dr. Williams' Library, Gordon Square, London, W.C. 1, to discuss the constitution and rules for the formation and affiliation of local groups of women pharmacists.

IN THE COURTS.—At Weston-super-Mare Police Court, on October 25, Mr. William Leonard Dale, chemist and

druggist, Meadow Street, was summoned for using petrol or petrol-substitute in contravention of the Motor Spirit Order, 1918. It was stated for the prosecution that Mr. Dale had been seen alighting from a motor-cycle at a house opposite golf-links, and proceeding, after storing the cycle, to play golf. For the defence it was explained that Mr. Dale, who was well known as a dog and cat specialist, called at the house on the occasion in question to see a customer's dog which he was treating, and that he invariably used a push bicycle for purposes of recreation, and the motor-cycle only when paying a professional visit. He had been attending this dog since the middle of May. The case was dismissed on payment of costs.

SALE OF FOOD AND DRUGS ACTS.—At Lambeth Police Court, London, on October 31, Frederick William Tobitt, oilman, 103 Kennington Road, S.E., was summoned for selling borax containing 140 parts of arsenic trioxide per million. It was stated for the prosecution that the Pharmacopœia limit was 5 parts per million, and that borax was largely used as a preservative, especially for sausages. The object of the prosecution was to get manufacturers to adopt some better system of purification. The defendant, giving evidence, stated that when people wanted borax as a preservative he sent them to a chemist. Mr. Arthur Lathwood, F.I.C., called for the defence, said that there was no need to observe the Pharmacopœia arsenic-limit with borax sold for commercial purposes. Borax was not largely used as a preservative, and he did not believe that it was used to any great extent as a medicine. The summons was dismissed.—At the same court, on October 30, Edward John James Millar, drug-store proprietor, 247 Camberwell New Road, S.E., was fined 10s., with 2l. costs, for selling precipitated sulphur yielding 30.8 per cent. of fixed residue on ignition, the limit being 0.5 per cent.—At the same sitting of the court, Frank Hayes, drug-store proprietor, 81 Albany Road, S.E., was fined 10s., with 2l. costs, for selling crushed linseed, "which had not been recently prepared," deficient in oil to the extent of 26.7 per cent.

POISONINGS.—An inquest was held at Barnet on October 30 concerning the death of Marian Pollard (71), wife of a pensioned policeman (*C. & D.*, November 2, p. 36). Mr. Kirby, solicitor, appeared for Mr. William Parry Jones, chemist and druggist. Evidence was given to the effect that after taking a teaspoonful of what was believed to be ammoniated tincture of quinine, Mrs. Pollard was seized with convulsions and died. Medical evidence described the symptoms as consistent with strychnine poisoning. Mr. Henry B. Walker, assistant with Mr. W. Parry Jones, chemist and druggist, stated that on the day in question he had occasion to fill, from the stock-bottle, the small dispensing-bottle of strychnine solution. He replaced the small bottle and left on the counter the stock-bottle while he answered a telephone call. He was at the telephone four or five minutes. He left the telephone and was about to write down the order he had taken, when Mr. Parry Jones called his attention to the strychnine bottle on the counter. He explained why it was there, and then put it away. The Coroner: "The bottles were very differently labelled?" Witness: "Yes." Mr. W. Parry Jones said Mrs. Pollard asked him for 2 oz. of ammoniated tincture of quinine. He found the bottle was not where it was usually kept, so he went to the dispensing-counter. If the bottle was empty it would be put on the dispensing-counter to be refilled. He took from the dispensing-counter a bottle which contained, as he thought, ammoniated quinine. He did not see the label, which happened to be away from him. He did not know why he failed to look at the label. It was his invariable practice to make sure of the label. There were on the counter at the time two bottles of similar appearance. From the bottle he took up he measured out and poured into the customer's bottle 2 oz. of the contents. He said to his assistant, "Mr. Walker, you have left this poison (he referred to the strychnine) on the counter, and it might have gone to a customer without my detecting it." Witness added that the shop was full of customers when Mrs. Pollard was served, and he was greatly rushed. The Coroner said he did not think the dispenser was to blame. He knew something about dispensing, and it was easy to make a mistake, especially in a time of pressure like the present, when chemists' shops were filled with customers. It was unfortunate Mr. Parry Jones did not, in the hurry of the moment, look at the label. No doubt he would be more careful in future. It was obvious that death was simply a case of misadventure. Mr. Parry Jones expressed his deep sympathy with Mr. Pollard and his family.—At Thetford, Sergeant C. Donoline, of the United States Army, died from an overdose of aspirin.—At Birmingham, a child died from drinking a solution of caustic soda contained in a milk-bottle.—At Northwich, a Mrs. Hilditch committed suicide by drinking a strong solution of ammonia.

Irish News.

Brevities.

The Local Government Board have refused to sanction an increase in the salary of Mr. D. H. Leane, Ph.C., compounder to the Listowel Union.

The Cork Corporation have been put on their defence by the Lord-Lieutenant for their alleged neglect to enforce the provisions of the Shops Act in the case of local chemists.

The Limerick Board of Guardians have requested the Local Government Board to allow an increase in the salary of Dr. J. Leo and of Mr. J. J. McMahon, Ph.C., apothecary and compounder respectively to the Union.

Dr. Michael O'Donnell, Ph.C., resident apothecary of the Castle Street, Dublin, Dispensary, and formerly President of the Irish Chemists' Assistants' Association, has been elected medical officer to the South Dublin Union. He was recently presented by his friends with a solid silver tea and coffee service as a mark of appreciation.

The new closing order is working satisfactorily in Belfast. Members of the trade have been circularised by the North of Ireland Pharmacists' Association with reference to the question of the opening of the door for the sale of medicine after the specified hours, and arrangement has been made with the authorities which meets with general approval.

The Bantry Guardians have accepted the tender of Fielding's Pharmacy, Cork, for the supply of medicines at 8 per cent. discount. The Granard Guardians have accepted that of Boileau & Boyd at 8½ per cent. off. S. Connor & Sons, Newry, were declared contractors for appliances at 12 per cent. off. The Tullamore Guardians accepted the tender of Boileau & Boyd for drugs at 8½ per cent. off, and of Fannin & Co., Dublin, for appliances at 10½ per cent. off. Boileau & Boyd's tender was also accepted for the Borrisokane Guardians at 8½ per cent., and that of Fielding's Pharmacy, Cork, for appliances at 9 per cent. off. Thomastown Union accepted Boileau & Boyd's tender at 7½ per cent. discount, and that of S. Connor & Sons, Newry, for appliances at 12 per cent. off. The Cashel Guardians have given the drug contract to Boileau & Boyd at 6½ per cent. discount, and that for appliances to Fielding's Pharmacy.

Scottish News.

Brevities.

The "flu" is rampant in Kirkecaldy. As a customer remarked, it is now that we know the value of the chemist.

Agricultural Associations in Scotland are endeavouring to prepare for the establishment of veterinary research laboratories and plant-culture stations.

The formation of an assistants' union, delayed owing to war conditions, is likely to materialise in the near future. Such a union will seek to safeguard salaries and rational hours.

So popular is the *C. & D.* in one pharmacy that the members of the staff met infrequently fall out in their eagerness to scan its pages. All are looking forward to a *C. & D.* as large as in pre-war days.

A Danish sea-captain, while shopping in a coast pharmacy last week, expressed surprise at the large and varied stock, and agreed that we are "doing without Germany." He said that sanatogen and many proprietaries are supplied in Denmark only by doctors' orders.

Edinburgh.

Three gun-metal mortars (with pestle) fetched 15s. each at auction in George Street recently.

Medicinal syrups are practically unobtainable locally, and some retail pharmacists have not a single lozenge or pastille in stock.

An article in a recent issue of the "Scotsman" deals popularly with individual and collective progress in medicinal-herb cultivation in the Lothians.

The "full service" of the Edinburgh chemists, referred to in last week's *C. & D.* (p. 37), includes the opening of pharmacies on Wednesday afternoons and on Sundays, and was in operation before the allegations of difficulty in obtaining medicine were made. Chemists have just cause to ask for latitude in the matter of lighting, a well-lighted establishment being an absolute necessity for them, especially in the dispensing department. Some of the shops, which have kept open until midnight—among which are five of the branches of Boots, Ltd.—have witnessed strenuous times. In one instance, where nearly 200 prescriptions were dispensed during the evening, the manager had to send out recall notices for two assistants: and even then the pace was very hot.

Pharmaceutical Society of Great Britain.

Council-meeting.

A MEETING OF THE COUNCIL was held on November 6, at 16 Bloomsbury Square, London, W.C. Mr. W. L. Currie, the President, occupied the chair, and all the members were present with the exception of Mr. J. F. Harrington.

THE LATE LIEUT.-COLONEL E. T. HARRISON.

The PRESIDENT, before proceeding to the business of the day, referred to the sudden death of Lieut.-Colonel Harrison, the announcement of which came upon them all like a thunder-clap. Every member round that table deeply felt that by the death of Lieut.-Colonel Harrison pharmacy had suffered a severe loss—the loss of a man who would not easily be replaced, and whose memory would long live in the minds of all who knew him. He moved the following resolution:

That this Council receives with profound sorrow the intelligence of the death of Lieut.-Colonel E. T. Harrison, F.I.C., C.M.G., one of the most distinguished graduates of the School of Pharmacy, and a brilliant and consistent leader and worker in pharmaceutical and chemical science. As Bell Scholar, prizeman, demonstrator, investigator, examiner, teacher, and adviser his career in pharmacy has been characterised by singular and unvarying excellence, and his services to his chosen profession will rank high in the records of pharmaceutical history. The Council recalls with pride the immense value of Lieut.-Colonel Harrison's knowledge, experience, and organising ability to the nation at the crisis of its fate, and with mournful satisfaction records recognition by his Majesty of those ungrudging and invaluable contributions to the defence of the realm. With the passing of this notable pharmacist, the Pharmaceutical Society loses a loyal and able leader, his colleagues an honoured associate, and his friends a staunch and beloved personality.

Mr. WHITE, in seconding, remarked that perhaps he knew more of Lieut.-Colonel Harrison than most members of the Council, because he was associated with him in the School of Pharmacy, in the preparation of the British Pharmaceutical Codex, and on the Board of Examiners. One could say a great deal of his many notable characteristics, but what one specially felt about Lieut.-Colonel Harrison was that he was the man who came forward at the right moment, at the most critical period in the nation's history, and rendered services which were incalculable, by placing at the disposal of the country a combination of knowledge which was unique as it was incomparable. One might say that his early death was the result of his whole-hearted devotion to his work in the national interest. He was at it early and late, and never spared himself. He had the wonderful faculty of imparting knowledge to and inspiring others in the conduct of that work, and if they spoke to those who had participated in the benefits of his training, they would invariably find that they were able and efficient men, mainly as a result of their contact with him. To devise means of effective defence against unscrupulous methods of warfare adopted by Germany required more than a knowledge of chemical science, more than a knowledge of engineering and of the properties of all kinds of materials: it required a practical and full knowledge of pharmacy in the best sense. Lieut.-Colonel Harrison, possessing as he did unrivalled knowledge of all the most essential phases and requirements of the situation created, came along at the right time, and fortunately for the whole country he was allowed to use his abilities without any shackles of red-tape, with results which were known to most of them. His death meant a very great loss to the country.

The resolution was adopted in silence, the members upstanding.

Mr. HINES also referred to the death of Mr. George Coverdale, York, who, he remarked, had earned for himself the respect of pharmacy, particularly in the North of England.

ELECTIONS AND RESTORATIONS.

Four persons, having tendered their subscriptions, were elected members of the Society, and twelve were elected student associates. Three, having made the necessary application and paid the restoration-fee, were restored to the Register of Chemists and Druggists, and eight were restored to the Society.

REPORT OF EXAMINATIONS.

The report of the examinations for October 1918 showed that in England and Wales 43 candidates had sat for the Minor, of whom 29 had passed and 14 had failed, whilst in Scotland 18 had sat, of whom 11 had passed and 7 had failed.

DIVISIONAL SECRETARIES IN SCOTLAND.

The Secretary submitted a list of the Divisional Secretaries in Scotland recommended for approval by the North British Branch for the ensuing year.

The PRESIDENT, in proposing its adoption, stated that every single division in Scotland was now covered.

The list was approved.

CORRESPONDENCE.

A letter from the Dorset Pharmaceutical Committee was read by the Secretary, expressing appreciation of the arrangements made by the Council with reference to military service and of the information supplied to the local Committees from time to time.

FINANCE COMMITTEE.

The financial statement submitted by the Finance Committee showed that the receipts of the General Fund since the last meeting amounted to 1,949*l.* 9*s.* 10*d.*, comprising the following items: Penalties and costs, 15*l.* 9*s.*; "Journal" and publications, 23*l.* 3*s.* 1*d.*; school-fees, 857*l.* 5*s.*; registration-fees, 102*l.* 18*s.*; restoration-fees, 2*l.* 2*s.*; ground-rent, 96*l.* 5*s.*; subscriptions, 95*l.* 11*s.*; certificates of qualification, 5*l.* The payments ordered at last meeting, amounting to 2,078*l.* 3*s.* 10*d.*, left an adverse balance of 128*l.* 14*s.* At the meeting of the Committee held on November 5, payments amounting to 1,559*l.* 1*s.* 6*d.* were authorised. The other statements in the report showed a balance of 44*l.* 18*s.* 7*d.* to the credit of the Benevolent Fund (Donation account), of 560*l.* 8*s.* 4*d.* to the credit of the Benevolent Fund (current account), and of 9*l.* 14*s.* 11*d.* to the credit of the Orphan Fund.

The Finance Committee recommended (1) that 1,000*l.* be borrowed from the Benevolent Fund at the current bank rate; (2) that in future third-class fare only be paid to councillors; (3) that instead of a fixed annual subscription for membership the Council shall take steps to have such an alteration made in the by-laws as will enable the Council to vary from time to time the amount of the annual subscription and the fee payable for life membership.

The Council discussed most of the points in the report in private. Ultimately it was resolved that the recommendation regarding the expenses of members of the Council should be discussed in public.

Mr. ROWSELL submitted that the whole subject had been before the Council within the past twelve months and that a decision had been recorded entirely contrary to the recommendations which the Committee now made.

The TREASURER (Mr. Bilson) confessed to feeling some diffidence in dealing with this recommendation of the Committee. He did not think he could support the recommendation for payment of third-class fare only and without any allowance whatever for subsistence.

Mr. ROWSELL remarked that in view of the suggestion thrown out by the Chairman of the Finance Committee he was quite prepared to move that the whole matter be referred back to the Finance Committee to consider whether, in the event of payment of third-class fare only being decided upon, they would not recommend for members of the Council a subsistence allowance of a guinea a day. The matter could then again come before the Council and be discussed on that basis.

Mr. HINES, as the member of the Committee responsible for the recommendation, said that in looking over the expenditure one could not help noticing that the amount allotted for travelling (123*l.*) was very great, although, of course, one had to remember that the expenditure for October was abnormal. (Mr. ROWSELL: "There were two meetings.") He admitted this, but one must remember that they had abnormal times in front of them and that they would have to face considerable expenditure in the not very far distant future. It was therefore their duty as a Council to indicate where economies could be effected, and he considered that the present recommendation embodied one which could be adopted without inconvenience.

Mr. DEARIN said he objected to the proposal on the ground that a seat on the Council was open to every member of the Society who had paid his annual subscription within a certain period, and that its adoption might penalise a man of moderate means who might be unable to incur the expense which attendance at meetings of the Council involved. In his own case he did not care a brass farthing whether he was paid anything or not: what he was most concerned about was the welfare of the Society in regard to the possibility of any man asking return to the Council

and being deemed by the electorate of the Society worthy of representing them. The whole trend of public service is to grant to members of representative bodies travelling expenses *plus* subsistence allowance. What that allowance should be so far as members of the Council were concerned is a matter for the Finance Committee finally to decide. Instancing the cases of the President and Mr. Guthrie, who had to travel from Scotland in order to attend meetings, Mr. Deakin said that a first-class fare just covered the expenses incurred by these gentlemen. (Mr. GUTHRIE: It does not.) Then it just covered their travelling expenses. He did not think it right that any member should be penalised to that extent. It is a piece of hypocrisy to pay first-class fare and expect the amount to cover subsistence. It would be better and more above board if third-class fare be paid, and when gentlemen were asked to come hundreds of miles to attend a meeting a reasonable subsistence allowance should be granted. The recommendation was made by the Committee when there was a very limited attendance of members, and as it seemed to him to be the considered or unconsidered opinion of a majority, he thought it should be referred back.

Mr. GUTHRIE said he desired to give expression, as far as he could, to the opinion of the minority of the Finance Committee. He represented the minority; in fact, he was the whole of it—(laughter)—so that he was really in a position to let Mr. Deakin know what the opinion of the minority was. When the question was last raised at a Council-meeting it was discussed from the point of view of economy, and the proposition then made was that third-class fare and a subsistence allowance should be paid. When they went into details they found that the proposal meant economy gone mad—that it would cost more that way than the other—and so they dropped it like a hot cake. But now the economists on the Finance Committee had gone a step farther, and had come to the conclusion that it was economical for one on a winter day to take off one's overcoat and jacket in order to save them from wear. The majority of the Committee made the proposal they did without first of all considering the opinions of those for whom they acted. They were not acting for the Council alone, but for the whole of the members of the Society. Therefore, before they made a proposal of that kind they ought seriously to consider what would be the point of view of those whom the Council represented. Did anyone believe for a moment that the mass of the members of the Society desired that members of the Council who met there month after month to do their work should do so under such miserable conditions as those proposed? (Mr. ROWSELL: No!)

Mr. SKINNER, taking up Mr. Guthrie's point that to pay a subsistence allowance was economy gone mad, expressed the opinion that figures should be available giving an estimate of what the present arrangement cost, and what it would cost to give a certain amount for subsistence allowance, together with the average attendance of members. He made this suggestion because it did not seem to him that the proposal would run to an amount which would mean that it was economy gone mad.

Mr. YOUNG reminded the Council that under existing conditions travelling was extremely uncomfortable. He was not altogether quite sure that everyone was absolutely regardless of cost in this matter. There was one direction in which the proposed change would be objectionable, he suggested. He did not think its supporters had the idea of deterring provincial members from coming to the Council, but were they quite prepared to look the fact in the face that the adoption of the proposal might result in a step being taken in the direction of entirely confining representation on the Council to London members?

The SECRETARY stated that the subject came before the Finance Committee on February 5 of this year, when it was proposed (1) that the Council should meet every alternate month during the war; (2) that instead of first-class railway fares third-class fares be paid, *plus* 10s. for maintenance; and (3) that the actual expense of the Council lunch be paid, and that the beverages be paid for by the members individually. At the succeeding Council-meeting the report of the Committee was adopted, with the exception of paragraph 2, which was referred back for reconsideration.

Mr. JENKIN said that as a London member he wished to condemn emphatically what he described as a very undemocratic proposal. It appeared to him that the system which had obtained for such a long time was a very fair one, and he should certainly oppose any alteration.

Mr. WHITE thought that if it were possible to refer the matter to the constituents of the Council they would express surprise that the Council should spend any time discussing it.

The PRESIDENT said that as one of the provincial members who spent a good deal of time in running up and down to London on the Society's business, and who found that the travelling comforts were not what they might be, he was

rather surprised to see the recommendation in the report of the Committee. (Hear, hear.) Its adoption would mean that provincial members would be a great deal out of pocket in attending meetings, and he did not think members of the Society would wish that those whom they sent to represent them on the Council should incur any such loss in attending to their interests.

On a show of hands, the recommendation of the Committee was rejected by 14 votes to 2. Messrs. Wolff and Hines were the only members who supported it.

BENEVOLENT FUND.

The report of the Benevolent Committee was read and discussed in private. When the proceedings in public were resumed Mr. PARRY, as Chairman of the Committee, inquired if any details of the report would be disclosed to the Press. The PRESIDENT replied that a report had been drawn up by Mr. Chater which would be communicated to the Press after it had been submitted to Mr. Parry for his approval. The report referred to by the President was headed "War Auxiliary Benevolent Fund," and contained the following information: The Secretary's report, showing subscriptions received to the amount of 1,146l., was presented. It was recommended that the Secretary be authorised to draft a letter for publication in the pharmaceutical Press and such other periodicals circulating among pharmacists and the drug-trade as may be selected. The Secretary submitted the following case which had arisen out of a request for registration as a student:

Student, age twenty-two. Enlisted 6th London Field Ambulance, 1913. Discharged medically unfit. Tuberculosis. Since discharge periodical severe illnesses, pneumonia. Has attempted to prepare for the qualifying examination, but utterly unfit, and should receive sanatorium treatment before further undertaking work. His parents, who do not reside in England, cannot help. Recommended that the Secretary be authorised to inform the applicant that the Committee will be prepared to provide for his maintenance in a sanatorium, and on his restoration to health be willing to assist in the payment of his college fees.

It was recommended that the collection of subscriptions through local Associations in Scotland be operated from the North British Branch, and be under the charge of the Resident Secretary in Scotland. The report was adopted.

LIBRARY COMMITTEE.

The report of the Library, Museum, School, and House Committee was very short, and did not contain anything of importance, although portions of it were dealt with in private. The report was adopted.

PARLIAMENTARY COMMITTEE.

The report of the Parliamentary and General Purposes Committee recommended that new membership certificates be issued to Messrs. Hugh Edgson, W. Hudson, and W. S. Scott in lieu of their former certificates. The National Council had written to the Society's representative asking for the co-operation of the Society in making known the existence of the facilities offered by the national clinics, etc., for the treatment of venereal diseases. They had also asked that a letter should be issued asking pharmacists to display in their pharmacies notices giving particulars of the times and places of the clinics. It was recommended that the Council agree to send representatives to a Conference to discuss this matter. The Committee found that the drafting of the by-laws for the division of the Minor was presenting some difficulty in the matter of phrasology, and recommended that the draft by-laws as agreed by the Parliamentary and the General Purposes Committee be submitted to both Boards of Examiners for their observations and report, and that the first reading of the by-laws by the Council be postponed until the December meeting. It was also recommended that the report and recommendations of the Local Associations Executive Committee made at their meeting on October 22 be received and adopted. [The report referred to dealt with suggestions in regard to insurance dispensing which had been sent by various Pharmaceutical Committees. It stated that the Ministry of Munitions had informed the Committee that a limited supply of glycerin may shortly be available for medicinal use.]

The report was adopted without comment, and Mr. Keall was appointed to act with Mr. Rowsell as a representative of the Council at the Conference with reference to the venereal diseases clinics.

PARLIAMENTARY FUND COMMITTEE.

The report of the Parliamentary Fund Committee stated that the Committee considered the results of communications with pharmacists who contemplated becoming candidates at the forthcoming election, with the result that they had decided to support the following three pharmacists:

William Bennett (Labour), Guildford Division.

W. Marshall Freeman (Unionist), Ilkeston Division.

W. J. Uglow Woolcock (Liberal), Hackney Central Division.

The Committee's list covers the three great political parties, and pharmacists willing to help to secure the return of any one of the prospective pharmacist candidates are invited to communicate with the Secretary. The imminence of the introduction of the Ministry of Health Bill makes it more than ever important that the new House of Commons should include those who had expert pharmaceutical knowledge.

The report of the Committee was adopted.

VOTING AT MEETINGS.

Mr. WOLFF, in terms of previous notice, moved:

That, subject to the right given by Section 6, paragraph 2 of the by-laws, whereby a ballot may be demanded, any three members of the Council may require that the names of those voting for or against any motion should be recorded in the minutes, and that unless the vote is taken by the Council sitting in Committee, shall be published in the official report of the "Pharmaceutical Journal."

Mr. SARGEANT seconded.

The motion was agreed to, the only comment on it coming from Mr. ROWSELL, who said that he was not afraid of publicity being given to any vote he might record at the Council-table.

This was all the public business.

North British Branch.

A MEETING of the Executive of the North British Branch was held at 36 York Place, Edinburgh, on October 30, Mr. William Giles in the chair. There were present: Messrs. Arthur, Cowie, A. Currie, W. L. Currie (President), Drummond, Fisher, Forbes, Giles, D. Gilmour, Glass, Guthrie, Jack, McMillan, Murray, Ramsay, and Storrar.

EXAMINERS NOMINATED.

The report of the Committee for Nomination of Examiners was considered in Committee, and on resuming it was agreed:

That Dr. Alfred Archibald Boon, Edinburgh; Dr. William Gardner Smith, Edinburgh; Peter Boa, Edinburgh; Jonathan Innes Fraser, Edinburgh; John Gilmour, Dunfermline; Thomas Stephenson, Edinburgh; Henry Stout, Edinburgh; and Thomas Wilson, Burntisland, be nominated for election by the Council as members of the Board of Examiners for Scotland for 1919.

DIVISIONAL SECRETARIES.

It was reported that a complete list of Divisional Secretaries for Scotland for 1919 had been drawn up for transmission to the Council. The only changes were in the case of Mr. Alexander Walker, Leith, in place of Mr. D. W. Nicolson, removed to London, and Mr. J. M. Douglas, Peebles, in room of Mr. N. M. Lindsay, who is on active service.

MINISTRY OF PUBLIC HEALTH.

It was agreed to continue the remit to the General Purposes Committee to watch any developments in connection with a Ministry of Public Health, the points to be specially considered being:

- (1) Representation of pharmacists in any bodies set up under the Ministry of Public Health;
- (2) The adopting of the principle that all dispensing of medicines be done by qualified pharmacists; and
- (3) That the Executive co-operate with other public bodies in Scotland for securing that there shall be a Ministry of Public Health for Scotland.

INSULTING CHEMISTS.

A reply had been received from the Local Government Board for Scotland, expressing regret that language used in the circulars V.6 and V.7, issued under the Venereal Disease Act, had caused justifiable resentment on the part of registered chemists and druggists, and promising that in any future issue the Board would consider modifying the terms of the leaflets objected to.

METHYLATED SPIRITS.

It was reported that no precise definition of the existing position regarding the sale of methylated spirits had been obtained from the Department of Propellant Supplies, and that the methylators themselves are in doubt. One point had been made clear. Medical practitioners had issued written orders for supplies of methylated spirits to be used for heating infant and invalid foods, and the Department of Propellant Supplies stated that they could not sanction such sales, as it was clearly a case of the spirit being used for burning, and other fuels could be used for that purpose.

MILITARY SERVICE.

With regard to chemists and military service, it was reported that all qualified pharmacists released for military service will now be posted to the R.A.M.C. This does not extend to unqualified dispensers. An arrangement had also been made by which qualified pharmacists holding exemption certificates are excused from Volunteer service, and

this had been given effect to in numerous instances. The new revised list of certified occupations includes a new category in the form of pharmacists engaged in hospitals and infirmaries. Hitherto in Scotland such cases had been dealt with as coming under the category of men lawfully and habitually engaged in the dispensing of medicines. It appears inconsistent that a qualified dispenser employed in a pharmacy was not called up for military service if in Grade 1 unless he was born in 1883 or since, whereas in the case of a qualified pharmacist in Grade 1 in a hospital or infirmary he was called up unless born in 1881 or since, and a qualified pharmacist in a pharmacy in Grade 2 was was not to be called up at all, whereas if employed in a hospital or infirmary he is to be called up if born in 1886 or since.

EDUCATION.

There was submitted an interim report dealing with (1) questions that would arise immediately the Education (Scotland) Bill now before Parliament had passed, (2) providing of facilities for pharmaceutical study in Technical Colleges or other institutions and in the Scottish Universities, (3) the reconstruction and suitable division of the Minor or Qualifying examination, the recognition of approved schools or courses of study, and questions arising as to courses of instruction in bacteriology and biology, and chemical analysis; (4) a special memorandum by Mr. Forbes, dealing in detail with some of the foregoing points.

It was agreed to continue the remit to the Committee, with instructions to watch developments and take any further steps deemed expedient for furthering the objects in view.

INFLUENZA EPIDEMIC.

A question was asked as to the action of the Medical Officer of Health for Edinburgh in approaching a particular company and making an arrangement for having certain shops belonging to that company open till 12 o'clock at night for the supply of medicines required in connection with the influenza epidemic. It was explained that immediate joint action had been taken by the Edinburgh Chemists' Trade Association, the Edinburgh Pharmaceutical Committee, and the North British Branch, making public announcement that there was no difficulty in obtaining all medicines required from the ordinary dispensing chemists in the city, who had arranged a full service, and were accessible at any hour of night or day, that attendance was being given from early morning till late at night every day, and that all demands were being fully met through the recognised channels. An advertisement and a letter had been inserted in the local newspapers, strongly protesting against interference with pharmaceutical practice by the Medical Officer of Health. (See C. & D., November 2, p. 37.)

PRELIMINARY EXAMINATION CERTIFICATES.

A question was asked as to a statement about the acceptance of Preliminary certificates under exceptional conditions, the point being as to whether this implied the acceptance of certificates of a lower standard. It was explained that there was no intention of setting up a lower standard, but that the dislocation due to the war would in some instances make compliance with the regulations impracticable, and some special consideration would require to be given in such cases, but without any suggestion of lowering the educational standard.

More Tales of Oenophus.

II.—Ye Whytliezootikale Counsell.

Natheless ye Potentialities of Krafte have notte yette pennetrated ye Cognyzance of ye Average Personne. Wherefore alle should studye ye Whytliezootikale Conceptione.

Inne ye Dimme and Darksome Dayes before we hobbnobbed withe Ministeres of ye Croune our Horizone was limited to Smalle Affaires. We wot notte ye Orbit of Oure Puissance.

Butte ye Advence of ye Masterfull Onne poynted ye Prymrose Pathe of Empiry.

Oures notte meeklie to yanke ye Plebeiane Pille or merelie to deccyphere ye Scantie Scripte, butte to commune withe Kaffir Brethren Overseas omne ye Balyng of Buchu and to advyse Reluctante Egyptians on ye Exportmente of ye Leaf of Senna.

Soe Counsellors frau farre Sancte Mungo Towne and Lordie Leedes teche Tremblyng Missioners of State ye Mysteries of Drugge-Trade Merchandys.

And undremt Coruscationes of Imperiale Lighte from Busie Blakkburne shalle illumine Post-Warre Problemes. Thus cometh Blushyng Merritt into Itts Owne.

Birth.

DAVIES.—At 86 Cranley Gardens, Muswell Hill, London, N. 10, on October 27, the wife of Walter T. Davies, 76 Finsbury Pavement, E.C. 2, of a son.

Marriages.

HASLAM—MILLER.—At Gillingham, Kent, on October 28, George Frederick Owen Haslam, chemist and druggist, Rotherham, to Florence Lilian, only daughter of Mr. Miller, The Olives, Wadhurst.

MURPHY—DUNNE.—At the University Church, Stephen's Green, Dublin, on October 26, by the Rev. F. Sherwin, William Murphy, Ph.C., Leinster Pharmacy, Nassau Street, Dublin, to Sarah, daughter of the late Mr. A. Dunne, Kildare.

Deaths.

ASCOTT.—On November 3, after a few days' illness, Mr. Tom Ascott, chemist and druggist, 1,098 Harrow Road, London, N.W. 10, aged sixty-two. Mr. Ascott, who qualified in 1878, carried on business in Harrow Road for thirty-three years. He was highly esteemed by everyone who came in contact with him.

CHAPMAN.—At 45 Norfolk Street, Hull, on October 19, Mr. Joseph Chapman, chemist and druggist, aged eighty-three.

COVERDALE.—At 5 Grosvenor Terrace, York, on October 29, of complications following influenza, Mr. George Coverdale, Ph.C. (George Coverdale & Sons, Ltd.), aged fifty-nine. Mr. Coverdale served his apprenticeship with Smeeton & Co., chemists, Leeds. He passed the Qualifying examination in June 1880, and the Major in the following October. A few years later he acquired the business of the late Mr. Charles Crookell, York, with whom he had been assistant. He subsequently opened branches in York, Scarborough, and several other places, and in 1900 the business was converted into a limited company; this company went into voluntary liquidation in 1911, and in the following year Mr. Coverdale again acquired the business, and continued it as George Coverdale & Sons, Ltd., the branches other than those in York being disposed of. Since the outbreak of war three of his sons have joined the Forces. The funeral took place at York Cemetery on November 1, among those present being the Lord Mayor of York, Mr. A. Humphreys (managing director of Bleasdale, Ltd.), Mr. T. C. Atkinson, chemist and druggist, a deputation from the Eboracum Lodge of Freemasons, and several members of the staff of George Coverdale & Sons, Ltd. One of the numerous wreaths was sent by the York Chemists' Association.

ELLIS.—At 66 Charlwood Street, London, S.W. 1, on October 30, of pneumonia following influenza, May, wife of Mr. Frederic R. Ellis, F.C.S., chemist and druggist, aged thirty-eight.

GRIFFITHS.—At 440 Abbeydale Road, Sheffield, recently, Mr. Arthur Valentine Griffiths, chemist and druggist, aged forty-four. Mr. Griffiths was manager at the Abbeydale Road branch of Boots, Ltd.

HAMILTON.—At the Salford Royal Hospital, on October 28, Mr. Thomas Sancer Hamilton, chemist and druggist, 135 Ellor Street, Pendleton, aged seventy-five. (See p. 35.)

HARDCASTLE.—At 16 Burton Road, Dewsbury Road, Leeds, on October 26, Mr. John Hardcastle, chemist and druggist, aged seventy-eight. Mr. Hardcastle was in business before August 1, 1868.

HEWITT.—At Zetland Street, Ashton-under-Lyne, on November 5, of pneumonia, Mr. Silas Hewitt, chemist and druggist, Market Avenue, aged forty-five. Mr. Hewitt, who served his apprenticeship locally, was the proprietor of an excellent business. He was a member of the Ashton Traders' Association and of the local Chemists' Association, and at one time acted as Divisional Secretary. He leaves a widow and one child.

INGLESTON.—At Sheffield, on November 4, Mr. C. Ingleston, assistant with Mr. C. H. Howitt, chemist and druggist, 66 Division Street, aged twenty-five.

MAYS.—At 107 Fishponds Road, Eastville, Bristol, on October 31, of pneumonia following influenza, Edith, wife of Mr. Sydney Walter Mays, chemist and druggist.

MAYS.—At the General Hospital, Bristol, on October 29, of pneumonia following influenza, Mr. Sydney Walter Mays, chemist and druggist, 107 Fishponds Road, Eastville, aged forty-three.

MORRISON.—At 143 High Street, Ponder's End, on October 29, Edith Maud (late of Kimberley and Johannesburg), wife of Mr. J. L. Morrison, chemist and druggist, aged thirty-four.

REMFREY.—At 345 Green Lanes, London, N. 4, on October 22, Mr. Samuel Alfred Remfrey, Ph.C., aged sixty.

RICHARDSON.—At 28 Bingley Road, Shipley, Yorks, on November 4, suddenly, Mr. John Richardson, chemist and druggist, aged fifty-nine. Mr. Richardson, who had recently removed from Hadfield and purchased a business at Shipley, was apparently in his usual health prior to his fatal seizure. He leaves four sons, all of whom are in the Army, and a daughter.

ROBB.—At Leith Hospital, on October 30, suddenly, Mr. James Robb, pharmacist, 115 Leith Walk. The funeral took place on November 2.

SIMON.—At Darnall, Sheffield, on October 31, Mr. J. Whitehead Simon, father of Mr. James Frederick Simon, Ph.C., Lea Hurst, The Park, Nottingham.

SMITH.—At 583 Borough Road, Birkenhead, on November 1, after a short illness, Mr. Herbert Arthur Smith, chemist and druggist. Mr. Smith passed the Qualifying examination in 1904.

STARKEY.—At Rathmines, Dublin, recently, Mr. William Starkey, M.D., M.S., L.A.H., aged eighty-eight. Dr. Starkey had carried on a medical hall at Rathmines for fifty years, and attended personally to the dispensing almost to the day of his death. He was the oldest apothecary in Ireland.

TOMLINSON.—At 2 Ecclesall Road, Sheffield, on October 30, Eliza, wife of Mr. G. M. Tomlinson, chief dispenser, Sheffield Royal Hospital.

Died on Service.

ALLAN.—Captain Noel James Allan, R.A.M.C., M.B., Ch.B., chemist and druggist, died of burns in a military hospital abroad on October 18, aged thirty-one. Captain Allan, who was the second son of Dr. J. H. Allan, Ph.C., St. Domingo Grove, Liverpool, passed the Qualifying examination in 1908, and after a brilliant career at the University of Liverpool took his medical degrees with honours in 1916. He subsequently joined the Army, and served for twelve months in Mesopotamia. Two sisters and two brothers (Mr. John H. Allan and Mr. James S. Allan) have qualified as pharmacists, Mr. John H. Allan having, in addition, passed his final medical examination at Liverpool.

CLAYTON.—Corporal A. P. Clayton, Duke of Cornwall's Light Infantry, has died in hospital abroad. In civil life Corporal Clayton was with Thompson & Capper, Ltd., manufacturing and retail chemists, Piccadilly, Manchester.

CULLING.—Private H. R. Culling, Rifle Brigade, died in a military hospital in France on October 20. Private Culling had been on active service for over two years in Salonica, Egypt, and France. He was the London representative of William Toogood, Ltd., 77 Southwark Street, S.E. 1, and the eldest son of Mr. George Culling, their senior traveller. He was greatly respected in the trade.

CURTIS.—Sergeant Archibald Robert Curtis, R.A.M.C., chemist and druggist, died in hospital at Blackpool, on November 1, of influenza, aged thirty-one. Sergeant Curtis, who was the second son of Mr. F. G. Curtis, Ph.C., Folkestone, passed the Qualifying examination in 1908, and subsequently became a partner in his father's firm. Before joining up voluntarily last August he was sergeant-dispenser to a field ambulance section and also acted as pharmacist to the local Kent V.A.D. He was highly respected both by the members of his unit and by his fellow-townsmen in Folkestone.

DODWORTH.—Sergeant George Thompson Dodworth, M.M., Northumberland Fusiliers, has been killed in action. Prior to joining the Army Sergeant Dodworth was an assistant with Mr. Henry Bown, chemist and druggist, Sheffield.

EDRIDGE-GREEN.—At Castle Mount Military Hospital, Dover, on November 5, Lieutenant Henry Allen Edridge-Green, Royal Welsh Fusiliers (attached R.A.F.), only son of Mr. F. W. Edridge-Green, M.D., F.R.C.S., aged twenty-four.

FRYER.—Second-Lieutenant William Arthur Fryer, King's Royal Rifle Corps, chemist and druggist, was killed in action in France on October 3. Second-Lieutenant Fryer, who was the son of Mr. Arthur Fryer, chemist and druggist, Neville Road, London, N. 16, passed the Qualifying examination in 1916.

HANSON.—Private Harold Hanson, Machine Gun Corps, is reported to have died in action on October 7. Prior to enlistment Private Hanson was an apprentice to Mr. J. E. Wormald, chemist and druggist, Halifax.

HARRISON.—At 57 Chancery Lane, London, W.C. 2, on November 4, Lieutenant-Colonel Edward Frank Harrison,

C.M.G., R.E. Officer of the Legion of Honour, B.Sc., F.I.C., Ph.C., aged forty-nine. Lieutenant-Colonel Harrison began a distinguished career in 1884 as an apprentice to the late Mr. J. H. Read, chemist and druggist, who was at that time in business in Holloway. In 1890 he won a Bell scholarship; in the following year he passed in rapid succession the Qualifying and the Major examinations, and simultaneously obtained several distinctions at the Bloomsbury Square School of Pharmacy. For a few years he was engaged in the research laboratory of the Pharmaceutical Society (where



LIEUT.-COL. E. F. HARRISON.

he investigated, *inter alia*, the alkaloids of aconite), and as demonstrator and assistant-lecturer in the School. During this time he actively promoted the welfare of the Chemists' Assistants' Association, before which he read a paper—a forerunner of numerous contributions to current science—on the formulas of benzene (*C. & D.*, II., 1891, p. 707); in 1892 he was elected Secretary of this Association, and in 1893 President. He next joined the staff of Brady & Martin, Ltd., Newcastle-on-Tyne, with whom he remained for five years. After taking the degree of Bachelor of Science at the University of London, he became head of the analytical department of Burroughs Wellcome & Co. at Dartford, and subsequently, in 1905, went into partnership with Mr. C. E. Sage, Ph.C., as principal of a school of pharmacy and for analytical practice. The growth of the latter led eventually to a determination of the partnership. Mr. Harrison then carried on his practice alone till 1912, when he was joined by Mr. P. A. W. Self, B.Sc., Ph.C., F.I.C. As the analyst responsible for the details concerning proprietary medicines published in "Secret Remedies" and "More Secret Remedies," he was an important witness before the Select Committee on Patent Medicines (*C. & D.*, I., 1912, p. 958). For several years he was a member of the London Board of Examiners of the Pharmaceutical Society; in 1914 he was elected a Vice-President of the British Pharmaceutical Conference. Shortly after the outbreak of war he enrolled as a special constable and a volunteer; later he enlisted the Sportsmen's Battalion of the Royal Fusiliers (ultimately transferring to the Royal Engineers), and was successively gazetted lieutenant in 1915, major in 1916, and lieutenant-colonel in 1917. He had of late been Deputy-Controller (and Acting-Controller) of the Department of Chemical Warfare in the Ministry of Munitions, and had just been appointed Controller. For his services he received last year the insignia of a Commander of the Order of St. Michael and St. George at the hands of the King. The immediate cause of death was heart-failure following influenza, but without doubt the frequent exposure to deleterious fumes to which in the course of his work he had voluntarily submitted had lowered his vitality. For over a year he had been in sole charge of research in connection with gas defence and of the manufacture of respirators for the Armies in the field. It is due mainly to his brilliant efforts that throughout this war our troops have been so well protected. Our soldiers have always had complete confidence in their box respirator, which has, indeed, been to them a friend in need, second only to their rifle. He built up this enormous industry almost entirely from improvised means. No demand of whatever nature, even the complete supply at a few weeks' notice to an entire Allied Army, has gone unsatisfied. In overcoming

all these difficulties his resourcefulness, his immense capacity for work, and his sound, practical judgment were of inestimable value. He leaves a widow, a son, Mr. D. F. Harrison, who is in an O.T.C., a brother, Lieutenant R. Harrison, and a sister, who is a pharmacist and an ex-student of the Bloomsbury Square School of Pharmacy. His elder son was killed in action in the battle of the Somme on July 30, 1916.

HILL.—Private Samuel Hill, A.S.C., died at Salonika on October 29, aged thirty-one. Prior to May 1916, when he joined the Forces, Private Hill was with Mr. R. H. Parkinson, chemist and druggist, North Road, Preston, Lancs.

JACKSON.—Private Harry Jackson, Welsh Regiment, has been killed in action, aged nineteen. Prior to joining the Army Private Jackson was an apprentice to Heywood & Co., chemists, Bury, Lancs.

KNOX.—Lieutenant John Knox, M.C., Royal Irish Rifles, Ph.C., died on October 26 of wounds received in action. Lieutenant Knox, who qualified as a pharmaceutical chemist of Ireland in 1911, was in civil life with S. Connor & Sons, chemists, Newry. He enlisted in 1914, and received his commission in 1917. A few weeks ago he was awarded a bar to the Military Cross (*C. & D.*, September 22, p. 33).

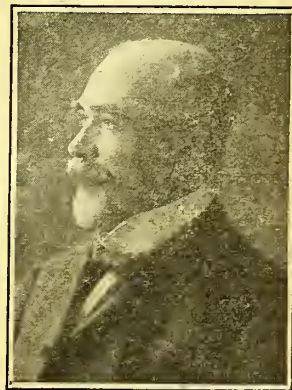
MACDONALD.—Private John Smart Macdonald has been killed in action. Private Macdonald, who in civil life was an apprentice to Mr. A. L. Bruce, chemist and druggist, Millburn Street, Aberdeen, had returned to the Front, after recovering from a wound, about a month ago.

ROBINSON.—Lieutenant Thistle Robinson, Royal Fusiliers, was killed in action on October 25, aged twenty-six. Lieutenant Robinson, who was the youngest son of Sir Richard Robinson, D.L., chemist and druggist, an ex-President of the Pharmaceutical Society of Great Britain, was educated at St. Paul's School and at Corpus Christi College, Oxford. He was of brilliant promise in every way. On the outbreak of war he enlisted in the Royal Fusiliers, in which regiment he soon received a commission. Lieutenant Robinson was wounded at the Front on two occasions. After receiving his second wound he was employed as an instructor in England, but at his own wish he gave up this position and went abroad again nearly twelve months ago. At the beginning of the present year he was for a short time on the Italian Front. One of his brothers, Captain R. W. Robinson, was killed at Suvla Bay in August 1915, and the two others are on active service as officers in the R.A.M.C. and the H.A.C. respectively.

Personalities.

ALDERMAN R. P. REES, J.P., chemist and druggist, High Street, Dowlais, has accepted the office of Mayor of Merthyr Tidfil for 1918-19. Alderman Rees, who is a native of Carmarthen, established himself in business at Dowlais nearly fifty years ago. From the first he took an active part in public affairs. He was President of the Dowlais Chamber of Trade for the first two years after its formation, and has shown practical interest in such questions as that of housing. He is Chairman of some of the largest building clubs in South Wales, and is well known in Masonic circles. He was first returned as a Borough Councillor in 1905, was made an Alderman in 1912, and was appointed a Justice of the Peace this year.

Alderman Rees, who is a Churchman, has for many years taken a keen interest in the Volunteers; he was at one time a member of the Mounted Infantry (Dowlais), and, more recently, helped to form a V.T.C. platoon, to which he continues to render good service. His younger son has served with the Royal Garrison Artillery since the commencement of the war, and has been wounded twice. The elder son, Mr. W. E. J. Rees, chemist and druggist, is with his father in business.



ALDERMAN R. P. REES, J.P.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

GENERAL ELECTION.

Mr. Bonar Law stated in the House of Commons on November 7 that it is probable that the General Election would take place in the week after next. He could not name a definite date until it was known whether the armistice terms are accepted by Germany.

SIR JOHN COLLIE, M.D.

Our Parliamentary correspondent learns that, owing to the increasing importance and extension of his work as Director of Neurasthenia Institutions under the Ministry of Pensions, Colonel Sir John Collie, M.D., has declined the invitation to stand for one of the seats of the Scottish Universities.

SHADING OF SHOP-LIGHTS.

It is officially announced (writes our Parliamentary correspondent) that the military authorities do not consider it desirable to relax the Order at present as to shading lights in shop-windows and houses. Apart from air-raid precautions, the use of lights in shop-windows is prohibited on the ground of economy.

INTERRUPTED APPRENTICESHIP.

Mr. MacCaw, on November 4, asked the Minister of Labour whether he can see his way to allow training to discharged soldiers who have had interrupted apprenticeships through service in the Army so that they may complete their apprenticeships; and is he aware that there are many cases of hardship where such training has been refused?—The Parliamentary Secretary to the Ministry of Labour (Mr. Bridgeman) replied that he is aware that hardship has been caused to men whose apprenticeship has been interrupted by military service, and a Bill to deal with the matter is in course of preparation.

CHEMICAL COMPANIES' EARNINGS.

In reply to Colonel Thorne on October 31, the President of the Board of Trade, in the House of Commons, stated that the net earnings of Brunner, Mond & Co., Ltd., for the year ended March 31, 1914, were 769,347*l.*, for 1915 799,322*l.*, for 1916 1,011,590*l.*, for 1917 1,117,153*l.*, and for 1918 1,111,948*l.* The dividend paid by this company on the ordinary shares in 1914 was 27½ per cent., in 1915 25 per cent., in 1916 27½ per cent., in 1917 27½ per cent., and in 1918 11 per cent. on a considerably increased capital. Dividends were also paid on the preference shares at the rate of 7 per cent. in each year. The net earnings of the Salt Union, Ltd., after deducting debenture interest of 54,000*l.*, were, in 1914 35,443*l.*, in 1915 86,524*l.*, and in 1916 326,558*l.* The figures for 1917 are not yet available. The dividends paid in 1914 were 3*s.* per 1*l.* share on the preference shares, and nothing on the ordinary shares; in 1915 10*s.* 8*d.* per share on the preference shares and 1*s.* per 1*l.* on the ordinary shares, and in 1916 and 1917 14*s.* per share on the preference shares and 12*s.* per share on the ordinary shares. The average price per ton of salt exported from this country was 18*s.* 6*d.* in 1914, 21*s.* in 1915, 29*s.* in 1916, and 44*s.* 2*d.* in 1917.

CHEMICAL INDUSTRIES AFTER THE WAR.

The Executive Committee of the Association of Chambers of Commerce of the United Kingdom have had under consideration the report of Lord Balfour of Burleigh's Committee on Commercial and Industrial Policy after the War. Discussion has taken place on the following, among other, paragraphs in that report:

Owing to the abnormal conditions due to the war, whilst an amount of foreign trade very large in value has been maintained, its character and directions have been altered in many respects. We think that war requirements have enormously increased our productive capacity in certain branches of industry, notably the steel and chemical industries, and that in numerous directions British manufacturers have shown much adaptability and resourcefulness, and the knowledge and experience gained during the war should be a vast asset in respect of our post-war trade. We urge the vital importance of every effort on the part of both employers and employed to attain the largest possible volume of production in order to secure the speedy recovery of our industrial and financial position.

Upon this a resolution was carried unanimously to the effect that, in the interests of industry and of the country as a whole after the war, it is essential that employers and employed should use every effort to obtain the largest volume of production, the removal of all restrictions in output, increased efficiency of processes, and adoption of economical methods of distribution, all of which will also result in increased remuneration to workers.

Trade Notes.

MONSANTO SACCHARIN.—W. B. Cartwright, Ltd., Rawdon, near Leeds, announce the arrival of a large consignment of Monsanto saccharin. The prices are given on p. 44 of this issue.

SPHAGNOL AGENCIES.—Peat Products (Sphagnol), Ltd., 19 Queenhithe, Upper Thames Street, London, E.C. 4, are offering special terms to chemists who will take up agencies for sphagnol soaps and ointment. Particulars are obtainable from the company.

KUR-MANGE is the name of a remedy for parasitic mange in horses, cattle, and dogs which is made by McDougall Bros., Ltd., 66/68 Port Street, Manchester. Kur-mange is sold in boxes of one dozen 1*s.* 6*d.* packets, and the retail price is protected under the scheme of the Proprietary Articles Trade Association.

QUIN-QUENNA.—A Christmas offer in regard to Quinquenna and Margery Skin-food Soap is made in the advertisement in this issue of Thomas Christy & Co., Old Swan Lane, London, E.C. We have recently had the opportunity of examining the soap referred to. It is an olive-oil soap, pleasantly perfumed, and smooth in use.

CHRISTMAS POSTERS.—Dudley & Co., 451 Holloway Road, London, N. 7, call our attention to the fact that they have ready a good selection of posters and tickets for Christmas window-dressing. There are about thirty different designs in window-posters, while the Christmas price-tickets are obtainable in practically every size, shape, and style.

SACCHARIN TABLETS.—The Turner Chemical Manufacturing Co., Broad Street House, London, E.C. 2, send us samples of the saccharin tablets which they manufacture. The company guarantee the strength of the tablets to be what is stated on the label, and they invite chemists to submit these products to analysis. The prices are given in our advertisement pages.

LINSEED-OIL SUBSTITUTES.—At the present time, when linseed oil is both scarce and dear, particular interest will be taken in the advertisement in this issue of Thomas S. Harris & Co., Ltd., 4 Lloyd's Avenue, London, E.C. 3. The company offer two varieties of linseed-oil substitutes, No. 1, a pale oil for use in white and light colours, and No. 2, a darker article of the colour of boiled linseed oil. No permits or licences are required for purchasing or selling these substitutes.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

215/6. "Kenhaler" in a metal case	220/21. Thymo-glydin
216/72. "Euprinine"	217/9. "Premier" gaslight paper
216/72. Chest protector (which inflates and deflates in use)	219/16. "Hyglox" glove
220/21. Tetraglandin tablets	220/26. Michel's suture-clip

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

"Anestiform," 215/51	"Mexican" hair-renewer, 217/534
"Andron," 218/73	Newton Mason's cough linectus, 205/49
Butterworth's face-powder tablets, 218/24	"Nucleatol" tablets, 204/72
"Extirno" fly-catchers, 218/74	Nurse Golton's ear-oap, 203/22
Fellows' syrup, 212/531	"One Minute" stropper, 185/35
Filling machines, 216/47	Phenalgol, 199/44
Filter-paper, 204/32	Pill-boxes, 217/2
Formotose tablets, 212/7	Podophyllin resin, 201/1
Frazer's safety corn plane, 215/70	Post's "C.B.Q.," 212/53
French chalk, 196/69	Post's meta-bisulphite, 216/38
Gardner's mixers and sifters, 202/55	Poudre d'amour, 214/43
Hobson's choice plaisters, 201/42	Poudre nide, 202/28, 210/2, and 217/9
Iodogen, 212/9	"Primus" pocket outfit, 182/10
Iodine with menthol and methyl salicyl, 198/56	"Purgoids," 184/65
Jayne's sanative pills, 204/32	"Quin - Quenna" shampoo powders, 196/41
Johnson's Palmolive soap, 210/38	Rhino-Gomenol, 217/64
Luminous paint, 204/73	Robinson's patent barley, 185/49
Mason's cough linectus, 205/49	Rubber gloves, 194/213
McClean's ear-caps, 203/5 and 209/22	Rum ether, 199/4
Metal-polish, 204/31	"Saxodon" tooth cream, 194/30

Observations and Reflections

By Xrayser II

Mr. Skinner

seems to think that though everything we need in the way of trade protection and organisation cannot without an Act of Parliament be included "within the limits of the Council," it might be secured, without legislation, under his scheme of devolution. I must remind him again of Lord Bowen's witty version of an old legal maxim—*facit per asinum, facit per se*. If the bodies upon whom these business affairs devolve are creatures of the Council, the legal difficulty still remains—it is still the Council that is dealing with them. And what about those 5,000 members of the Society who do not belong to the Associations represented by the Local Associations Executive, and those members of the Associations who do not belong to the Society? How do they stand with regard to such devolution? One cannot help regretting that Mr. Skinner does not face more boldly the only logical alternative—a new Act, or an independent trade union. Mr. Skinner's address in South-East London has been variously reported, and suffers, no doubt, from condensation. Hence, perhaps, its apparent contradictions, such as a Council to "constitute the staff mind in pharmacy, with the Secretary, who is not a member of the Council, as chief of staff"; and effective co-ordination along with "devolution for local purposes," the model of which we have in the L.A.E. and the Scientific Advisory Committee, which exist not for local but for general purposes. I make these remarks subject to correction if Mr. Skinner has been misreported.

The Electoral Scheme

of the Council Committee (advocated by Mr. Jenkin) would be worse than our present one, for in effect it would mean the election each year of seven Councillors *en bloc*, of whom only one would be the direct representative of any particular area. Every single elector would have less choice than he has under our present system, and would probably know less of six out of the seven candidates elected than he does now. And this is put forward as a substitute for territorial representation! Such shifts are we forced to by our reluctance to face the necessity of legislation if we are to democratise the Society. If it is "unthinkable" that any pharmaceutical authority other than the Society, with a Council elected on a territorial basis, can effectively act for us, for heaven's sake let us organise the Society on such a basis without delay. But this scheme is territorial in name only; it "keeps the word of promise to the ear, to break it to the heart." The only territorial scheme worthy of the name is (as Mr. Skinner sees) one that for the election of twenty-one representatives gives us twenty-one constituencies, each of which elects its own, the whole twenty-one being elected at the same time. The Charter forbids this? Then the Charter must be revised.

A Panel Patient

has been making public complaint that his medicine is not delivered by the chemist who dispenses it, but has to be fetched, though the same chemist regularly delivers medicines to his non-panel customers; and a journalist, who must surely be short of matter for his daily column, devotes a paragraph to the airing of this grievance. It is admitted that in the particular case referred to the medicine was delivered when the chemist had been informed that the patient was unable to send for it, but the inquiry is still pressed—why is this distinction made? To a person of ordinary intelligence who knows all the facts of panel service the reason should be sufficiently obvious: an inclusive fee of 3½d. (or thereabouts) does not pay for delivery. To the question, Who makes these rules? the answer is equally obvious: The authorities who impose these miserable terms upon us are responsible; in other words, the public, of whom panel patients are a large section, are themselves responsible, and the remedy lies with them.

The High Price

of drugs and pharmaceutical chemicals all the world over is becoming so serious as to attract general attention, and is proving a considerable bar to the medical treatment of disease. This is all the more serious on account of the abnormal prevalence of disease; epidemics (some of them of a virulent kind) seem to be a by-product of the war. In the United States the scarcity of drugs is being as keenly felt as with us, partly owing to restrictions on shipping, and partly to natural causes. In Italy maximum prices for the most ordinary medicines are to be fixed, and the cultivation of medicinal plants—especially of chamomile and foxglove, which are recommended as very remunerative—is being urged upon agriculturists. In Germany and Austria many of the most important drugs are unprocurable. In Sweden there is great activity in the production of chemicals, pharmaceuticals and others. It throws a curious light on N.H.I. prescribing in our own country that in spite of this universal rise in the price of drugs the average cost of prescriptions is very much less than it was before the war. How is it to be explained? Not, I presume, on purely scientific grounds.

Sir Walter Raleigh,

the tercentenary of whose death (or judicial murder) occurred last week (October 29), deserves a note here on account of the famous *Confectio Raleighana*, based upon the great "Cordial" he was said to have brought with him from Guiana (a history of which is given in Wootton's "Chronicles of Pharmacy") and of his interest in chemistry and medicine generally. The Confection, first introduced into our P.L. in 1721, had originally forty-eight ingredients, and Alleyne complains that it was very troublesome to make. It dwindled gradually in successive editions of the Pharmacopoeia (under different names), and survives, the mere ghost of its former self, as *Pulv. Cretæ Aromat.* Raleigh varied his chemical experiments in the Tower by the writing of his "Historie of the World," in which his interest in natural philosophy and metaphysical speculation is so largely reflected, and he is now being put forward as a rival of Bacon's for the honour of having written a great part of Shakespeare's works! He was certainly a better poet than Bacon.

Tiberius Claudius Menecrates,

to whom we owe the original formula for diachylon plaster, was doubtless one of the physicians of Grecian blood who were attracted to Rome by the enlightened policy of the Julian Caesars in admitting medical practitioners to the honour of citizenship. It was the custom of men so distinguished to adopt the names of their patrons, and this probably accounts for those he assumed, since he is known to have been physician to the Caesars, and is said to have died in the reign of Claudius (A.D. 41-54). He was a voluminous writer, several times referred to by Galen (born A.D. 130), but only small fragments of his reputed 155 works have been preserved. In Walker's "Memoirs of Medicine" he is credited with having made a stand against the growing practice of abbreviations in prescriptions by always writing names and quantities of ingredients in full, and boasting of it. In Mr. Woolley's address on advertising he seems to have been momentarily confused (not for the first time) with another Menecrates, a native of Syracuse, who became physician to Philip of Macedon. Walker speaks of him as "this most eminent of medical coxcombs," and tells the story (for which see also Wootton's "Chronicles of Pharmacy") of the contemptuous treatment by which Philip ridiculed his pretension to divine honours. It is a curious instance of "The Vanity of Human Wishes" that this incident is virtually the only thing by which he survives, his writings having entirely perished, and has won him a place in Smith's "Classical Dictionary" (1894) more than four times larger than that accorded to his really more important namesake of Rome.

ROOTS OF BITTERNESS.—The grandson of an old Lothians dame proudly told her that he was getting Latin roots at school. "The rubbish you bairns get nowadays!" said the old lady with scorn. "Licorice-root used to be the stuff in ma young days!"



DISINFECTANTS

(Fluids, Powder, and Soaps).

Also

"Sanitas-Bactox" Homogeneous Phenoloid Disinfectant ;
18/20 co-efficient.
"Sanitas Okol" Emulsified Phenoloid Disinfectant ;
18/20 co-efficient.
"Sanitas Sybol" (Improved Lysol).
"Sanitas Sulphur Candles."
"Sanitas Formic Sulphugators."
"Sanitas Formigators."
"Sanitas Drain Testers."
"Sanitas Polishes."
"Sanitas Distemper." for walls.
"Sanitas Creoleum" (wood preserver).
Peroxide of Hydrogen (Kingzett's Preserved).

Kingzett's
Patent

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Dental Paste, wholesale, 20/- per doz.; retail, 2/- per tube

Mouth Wash, " 25/- " " 2/6 per hott.

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ORISAL LTD., 77 George Street, Portman Square, W.1.

550 Monsanto Saccharin

In SS. "Orduna," now in docks, Liverpool.

50-lb. Cases - 360/- per lb.

10-lb. Tins - 365/- "

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HAEMORRHOIDS

A NOTE TO CHEMISTS.

Hæmorrhoids are caused by the disordered functions of the system which cannot be corrected by external remedies.

Evidence, which we can produce in confidence from Chemists and others who have suffered, fully prove that a cure has been discovered, and that the recommendation of "Pylitna" Powders is completely justified.

We invite correspondence and co-operation.

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Fletcher's Concentrated Liquors,
offer a perfect alternative to the discarded
B.P. Tinctures and Syrups.

FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, E.

Editorial Articles.

The Position of Santonin.

PRIOR to the outbreak of war considerable interest was shown from time to time, in the market for santonin, and there was quite a large sale for it in this country. Some twelve years ago Germany acquired a monopoly of the industry in Turkestan, and Hamburg was a centre of the distributing trade. Since the war began, however, the conditions of supply have undergone several changes, and it is common knowledge that the exclusive exportation from Russia has during the war been in the hands of one firm only, who have been able to maintain under somewhat difficult conditions fairly regular stocks on the world's markets, and thus the demands of our Allies and our Colonies have been met. It may be recalled that there is only one factory producing santonin, and that is near Tashkent in Russian Turkestan, but it has now transpired that for several years past no wormseed has been collected, and that for fifteen consecutive months the manufacture has practically ceased. This is attributed to an acute famine which has prevailed, lack of labour, and insufficient crops of wormseed. Moreover, there has been a shortage of hydrochloric acid, used in the process of

manufacturing *santonin*. This acid had to be transported from Rostok on the Don to Tashkent, a distance of about 2,400 miles, and such transport was only possible in favourable weather. These factors combined have now led up to a considerable shortage in *santonin*, and even when the war is finished and communications re-established, it will require at least one or two years before the Turkestan factory is enabled to resume its normal rate of production—that is to say, to turn out the annual quantities required by the needs of the world market, which probably vary from 8,000 to 10,000 kilos. In comparison with other pharmaceutical products the increase in the price of *santonin* since the beginning of the war appears to have been inadequate. Whereas other products have had their price multiplied up to ten times and more, even the value of quinine having more than doubled, the price of *santonin* has increased only about 40 per cent.; but we understand that another advance is pending and will be announced shortly.

In the following table we show the ruling prices during the past four years at the periods named:

July 31, 1914 ...	115s.	December 31, 1916	160s.
January 1, 1915 ...	220s.	July 31, 1917 ...	160s.
December 31, 1915 ...	155s.	December 31, 1917	150s.
June 30, 1916 ...	155s.	July 31, 1918 ...	181s. 6d.

Payment for Service Rendered.

IN view of the increased cost of living the remuneration of chemists and their assistants should obviously be on a more liberal scale than before the war, and recognition of this fact will be hastened by the coming demobilisation of former assistants who may be desirous of returning to their wonted occupation. In fact, the salaries demanded are likely to be so high, as compared with pre-war conditions, that a serious problem will present itself to proprietor-pharmacists who find it impossible to carry on business satisfactorily without qualified assistance, and yet do not at present enjoy such a margin of profit as would justify them in complying with the demands which may be anticipated. Clearly, there can be only one really satisfactory solution of this problem, and that is to earn more profit, but we are immediately confronted with the further problem as to how that extra profit is to be gained. So far as ordinary retail business is concerned, it is probably safe to assume that most chemists in business on their own account are already doing their best to increase their profits to the utmost; but there is good reason for believing that the part of the business which the pharmacist regards as exclusively his own preserve is being conducted at a profit which is far from adequate. Speaking at a recent meeting of the North London Pharmacists' Association, the Secretary of the Pharmaceutical Society expressed the opinion that, in fixing their charges for private dispensing, chemists did not as yet seem to have realised the possibilities of the situation, since he had on occasion been charged but little more for medicine dispensed than in pre-war days. Evidence is forthcoming from other quarters to prove that Mr. Glyn-Jones was fully justified in his reproach, and it is even a question whether chemists in the metropolitan area are not worse offenders in this disregard of their business interests than those in other districts. It should be regarded as axiomatic that, the purchasing power of the sovereign having been reduced to less than half what it was before the war, the profit on each dispensing transaction ought now to be at least twice what would formerly have been considered satisfactory, but it is very doubtful if chemists generally are acting on this principle in fixing their charges. Something of this nature, however, will have to be done if proper provision is to be made for the remuneration of demobilised assistants, and we shall be glad to have the views of our readers on the subject, with special regard to the setting up of a standard system of arranging prices and calculating profits in connection with the dispensing of medicines. There is much to be said in favour of a national system of charging for all drugs, etc., at cost, making appropriate additions for containers and establishment-charges, and adding a dis-

pensing-fee which should be regarded as the pharmacist's own charge for professional service rendered. One special advantage of such a system in being would be the support it would lend in future negotiations on the terms for Insurance dispensing by chemists. The approaching struggle in respect of those terms will turn largely on the two questions of what salaries it is necessary to pay to duly qualified assistants, and what is a fair charge for the pharmacist's professional services when taking on contract work, with full payment assured and clerical work reduced to the barest minimum. A further point that suggests itself for consideration in seeking for possible increase of the chemist's profits is that of the class of assistant to be employed in the pharmacy. The idea is now surely exploded that every assistant employed in the shop of a retail chemist should be a duly qualified pharmacist. One such there certainly ought to be in the days to come, if the proprietor has proper regard for his own comfort and freedom from anxiety, but for the general business of the ordinary pharmacy the essential thing is that everyone engaged at the sales counter should be a good salesman or saleswoman. A fully trained pharmacist is not always what is required in this respect, and it is a moot point whether some such training as is undergone by young people in other distributive trades should not be demanded in the case of all counter-hands. There is no getting away from the fact that the majority of those engaged in the retail drug-trade derive the greater part of their profits from their ordinary sales over the counter; and, while enhanced profit from the dispensing of medicines is an undisputed necessity, that branch of the pharmacist's business alone is never likely to provide an adequate livelihood for educated men and women.

The Problem of Raw Materials.

THE complete submission of Austria-Hungary, Turkey and Bulgaria to the terms of the Allies has brought Peace Day so much nearer that the question may reasonably be asked, Are we prepared for it from an economic point of view? A number of tentative and more or less nebulous proposals have been discussed from time to time as to what should be done to protect our post-war and pivotal industries, but no definite pronouncement has yet been made by the Government, so that the question of trade within the Empire, with Allied countries, neutrals, and present enemy countries remains in abeyance. Until business men know what the Government programme is they cannot possibly make arrangements for action. It is quite evident that Germany and Austria will want access to the overseas markets from which they have been cut off, but it is quite as certain that a system of rationing raw materials will take place. Already Germany has set up elaborate organisations to deal with raw materials when obtainable, but in any case her supplies must ultimately depend on tonnage; and as the Central Powers have been responsible for the submarine campaign, they will be the chief sufferers and the last to be rationed. This question of control of raw materials was considered at the Imperial War Conference, a report of the proceedings of which was issued last week in the form of a Blue-book (Cd. 9177). Much of the proceedings was of a highly confidential character, and little was disclosed beyond the findings that it was necessary to secure for the British Empire and the belligerent Allies the command of certain essential raw materials in order to enable them to repair the effects of the war as soon as possible. The opinion is further expressed that the Governments of the Empire should make such arrangement among themselves as would ensure that essential raw materials produced within the Empire would be available for the above purpose, and should arrange with the Allied countries to utilise essential raw materials produced in those countries. A number of recommendations were passed embodying the above proposals. The Conference also considered the provisions of the Imports and Exports (Temporary Control) Bill, and another resolution was passed. Probably the most interesting part of the report is that relating to the discussion on dyes, about which a

private memorandum was circulated setting forth the whole dye position before and since the war, and what steps have been taken in this country since the war. Sir Albert Stanley, President of the Board of Trade, addressed the Conference on the subject, and, while adding nothing new, emphasised the already well-known fact that the Government is proposing to place an embargo on German dyes in this country for a period of at least ten years after the war, so that during that period no German dyes or "dyes from any other foreign source" will be imported into this country. In other words, this means that the United States is also excluded, but doubtless licences will be granted to import those dyes which are not made here and are essential. Sir Albert predicted a great future for the dye-industry in this country, but no reference was made to any possible action with regard to chemicals. The President of the Board of Trade intimated that no legislation is required for the purpose of keeping out German dyes, so of course the same would, if necessary, apply to chemicals. Opinion is conflicting and divided as to whether it would be a wise policy to place a ban on the imports of all German chemicals into this country, but it is evident that for a lengthy period the business between Great Britain and Germany will be reduced to absolutely necessary requirements on either side. Everybody knows that Germany's need of raw materials from the British Empire is far greater than our need of German manufactured goods; and as for the much-vaunted potash, we shall provide this ourselves or obtain it from Alsace-Lorraine.

British Saccharin.

WE referred last week (p. 43) to the prevailing opinion among London import houses that British saccharin is not of such high quality as the best American brand. We have since received detailed information from the Cooper Laboratory for Economic Research which convinces us that their saccharin is of the highest purity, and as we go to press Boots Pure Drug Co., Ltd., who are the largest manufacturers of saccharin in this country, call our attention to the data concerning the analysis of a hundred samples of saccharin published in "The Analyst," October 1918. The Boots' product, it is claimed, has been consistently superior to imported saccharin. We are glad to have this opportunity of vindicating the claims of this new British manufacture and of congratulating English makers on accomplishing the task of manufacturing pure saccharin in the face of almost insuperable difficulties.

Indigo Research in India.

It is not, perhaps, generally known that a serious effort is now being made to improve the quality of the indigo produced in India and to better the conditions of manufacture, with a view of securing for the indigo planters more favourable chances of competition with the synthetic-indigo factories after the war. Since 1916 Mr. W. A. Davis, B.Sc., who has had experience as an agricultural chemist at Rothamsted, has been at work in India as the Government Indigo Research Chemist, and it is understood that good results have already been obtained. Some information as to the direction the research is taking is given in a special publication issued recently by the Agricultural Research Institute at Pusa for circulation to the Bihar Planters' Association. In this Mr. Davis gives an account of trials made last season in using the gum of *Butea frondosa* as a "settling" agent for use in indigo-manufacture. It appears that in factories where the fermentation is not going smoothly, or the quality of the indigo-plants used is poor, the water which is eventually run off after the indigo settles may still contain enough indigo to give it a distinctly green colour. Mr. Davis has found that the precipitation of this finely divided suspended indigo and its recovery can be secured by adding to the vat just after "beating" is finished a small quantity of a solution of "dhak" fluid. The trials made last season in Bihar show that in certain cases an average increase of yield of 16 to 38 per cent., or even more, of indigo can be secured by this means; an increase which may easily make all the difference between success

and failure. Further, the use of the gum has no appreciable effect on the quality of the indigo produced, whilst it quickens the manufacture by facilitating settling and filtration. The matter is of some interest to the drug-trade because the ruby-coloured gum exuded by *Butea frondosa* is a kind of kino, and though Mr. Davies does not mention the fact it is possible that true kino gum, *Pterocarpus Marsupium*, may prove useful for the purpose, or indeed, any material which, like this type of gum, is rich in tannin. It is interesting to hear of any variety of kino finding a new industrial application, as the supply of these products has long exceeded the demand.

The Supply of Glycerin.

WE have received the following letter from the Ministry of Munitions of War, Explosives Department (Propellant Supplies Branch), 32 Old Queen Street, Westminster, S.W. 1:

"In accordance with your request that you should be informed of the changes which this Department might find it necessary and desirable to make in regard to the arrangements for glycerin distribution, I am directed to inform you that, in view of the better position of supply, it is now possible slightly to relax the restrictions in force. The Department proposes, therefore, to revert to the previous arrangement, whereby glycerin manufacturers were licensed each month to distribute a quantity of glycerin amongst their customers for specified purposes. The Department has invited applications for licences from glycerin manufacturers, and, if circumstances permit, will authorise deliveries of glycerin by them during the current month.

"The purposes for which medicinal glycerin can be allowed under the present circumstances are the manufacture or compounding of B.P. and B.P.C. preparations and doctors' prescriptions, and it has been arranged that where glycerin is resold by a wholesaler, the wholesaler is to obtain a written guarantee from his customer in similar terms to that which he has given to the glycerin manufacturer.

"It has been arranged to allow for the first issue a somewhat larger quantity of glycerin than the monthly ration which the Department has in view, with the object of rendering it possible to establish small stocks of the material in the hands of pharmacists as early as possible. It should be recognised that while the restrictions have in a measure been relaxed, the quantity of glycerin which the Department can see its way to allow for medicinal purposes is very much smaller than the pre-war consumption, or, indeed, than the consumption during the earlier period of the glycerin requisition. It is essential, therefore, that if the best results are to be secured from the national point of view, the strictest possible economy should be practised in utilising the limited supply now made available."

Our subscribers will welcome the relaxation of the restrictions on the supply of glycerin, as there are so many cases in which that substance is essential for medicinal purposes.

New Companies.

BRITISH PHOTOGRAPHIC PLATES AND PAPERS, LTD. (P.C.).—Capital 10,000/. Objects: To carry on the business as indicated by the title. Solicitors: Ashurst, Morris, Crisp & Co., 17 Throgmorton Avenue, London, E.C.

W. H. DIXON & SONS, LTD. (P.C.).—Capital 15,000/. Objects: To carry on business as wholesale, retail, and manufacturing chemists and druggists, analytical chemists, dentists, opticians, dealers in toilet requisites, wholesale and retail wine and spirit merchants, bottlers, etc. R.O., 51 High Street, East Grinstead.

A. BREZET & CO., LTD. (P.C.).—Capital 10,000/. Objects: To acquire all or part of the business of A. Brezet & Co., 145 Wool Exchange, London, E.C., and to carry on the business of manufacturers of and dealers in drugs, medicines, medical and surgical appliances, scents, dyestuffs, colours, oils, varnishes, electrical, chemical, photographic and scientific requisites, etc.

NATIONAL RECLAIMERS, LTD. (P.C.).—Capital 15,000/. Objects: To purchase from T. F. Killick, H. F. Farnan, M. Salamon, and S. C. Green a certain secret process, etc., also to carry on the business of manufacturers, reclaimers, importers, exporters, and dealers in pharmaceutical, chemical, industrial and other compounds, oils, waxes, and pigments. Solicitor: M. Bender, 35 King Street, Covent Garden, London, W.C.

Society of Chemical Industry.

Iron and Potash in Alsace-Lorraine.

It was a happy thought that prompted the Society of Chemical Industry to invite a member of the sister Society recently formed in France to visit this country. The invitation was promptly accepted, and the distinguished President of the new Société de Chimie Industrielle, M. Paul Kestner, addressed the members of the London section in the rooms of the Royal Society of Arts, Adelphi, W.C., on November 4. Prior to the meeting M. Kestner was entertained to a luncheon at the Cannon Street Hotel, at which the President of the Society, Professor H. Louis, presided. Among those present were Lord Moulton, Sir Charles Parsons, Dr. C. C. Carpenter, Sir William Tilden, Sir George Beilby, Sir Herbert Jackson, Dr. R. Messel, Sir William Pearce, Sir Boverton Redwood, Mr. J. F. L. Brunner, M.P., and Mr. D. Lloyd Howard. In proposing the toast of "The Société de Chimie Industrielle and M. Paul Kestner," Professor Louis touched on the question of the monopoly of potash hitherto held by Germany, the restoration to France of Alsace-Lorraine, and the important iron and potash deposits in that province. In his reply, M. Kestner pointed out that one German practice in the war had been to transfer the wealth of invaded countries to Germany. Industrial plant had been systematically removed, and what could not be taken away had been destroyed. "After the war, when Germans come back to sell their wares," he said, "we must ask what guarantees they can give that the articles they offer have not been manufactured by stolen machinery."

There was a large attendance at the evening meeting to hear M. Kestner on the "ALSACE POTASH DEPOSITS AND THEIR ECONOMIC SIGNIFICANCE IN RELATION TO TERMS OF PEACE." The chair was occupied by Dr. Charles A. Keane, Chairman of the London Section, who, in a graceful introduction, said their Society was honoured by the presence of so distinguished a representative of French chemical science. On behalf of his Society he, the Chairman, held out a welcoming hand to the Société de Chimie Industrielle and its President, and in this he spoke not only as representing the Society, but also all that stands for chemistry in this country, and, he believed, for the nation itself. The subject of M. Kestner's address was happily chosen and opportune, and the question was a vital one for all the Allied countries.

M. Kestner, who was cordially received, read his paper in perfect English, both preamble and peroration being fine examples of eloquent diction, but he did not by any means neglect the solid, practical, and convincing facts which made it clear that the economic liberty of the Allied countries in the future is involved in the restitution to France of Alsace-Lorraine. He pointed out that Alsace-Lorraine, although outwardly the symbol of German unity, is in reality the key to her industrial and commercial supremacy. It holds two treasures—potash and iron—the loss of which will spell the downfall of her dreams of economic supremacy. When Germany annexed Alsace she already had a monopoly of potash in the deposits at Stassfurt, and did not know of the additional deposits in the acquired territory which were discovered only in 1904. Since that date the Alsace deposits have been extensively developed under the direction of the German Potash Syndicate, which has for many years controlled and guarded the German output of potash from both the industrial and economic standpoints. The deposits of Alsace have proved to be even richer than those of Stassfurt, and in addition are more easily worked and more accessible to centres of distribution. With this extension of the German potash monopoly its importance has been dwelt upon in Germany with continually increasing urgency during the period of the war, and M. Kestner quoted several extracts from German newspapers such as the "Vossische Zeitung" and from scientific publications in which the value of potash as an ally is accentuated from every standpoint, but especially from that of its value to Germany as a powerful weapon in bartering for terms of peace. He gave an intimate and comprehensive account of the character and position of the Alsace deposits, and outlined the other available sources of potash, including its recovery from the flue dust of blast-furnaces and cement works which has been so successfully developed in this country by Mr. Kenneth Chance, to whom he paid a warm tribute. From statistics which he had prepared he showed conclusively how Germany had by means of her potash monopoly discounted the efficacy of the blockade. The figures showed that whereas in 1914 Germany had used as fertiliser for her own crops 500,000 tons of potash, the annual consumption had gradually risen in 1915, 1916, and 1917 to a total of 800,000 tons. By this means they had been able to raise exceptional crops and thus stave off the starvation of the inhabitants of the country. M. Kestner

referred to the very favourable conditions under which France would be able to develop and work the Alsace deposits to the advantage of the Allies. With respect to iron ore, he said that of the output of 28,000,000 tons in Germany before the war, 75 per cent. was derived from the Lorraine mines. Acquisition of the ore-field in Briey, which continues the deposit across the frontier of 1871—an acquisition which was to have been the consequence of our anticipated defeat—would have assured Germany the whole extent of the ore-field with an additional output of 20,000,000 tons. Thus by restoring Alsace-Lorraine to France the Allies have the opportunity, M. Kestner stated, of reducing Germany to impotence and of guaranteeing the future peace of the world. "It is not a question of sentiment and of lofty justice," he said, "which concerns France alone, but it concerns the essential interests of all the Allies. Alsace-Lorraine, which was to have been the symbol of German unity, will become the symbol of her own defeat; but this is merely sentiment, it will not be enough to stimulate the German soul to revenge. The two lost treasures in the eyes of the Germans will not be Alsace and Lorraine, but the mines of Lorraine and the mines of Alsace."

An interesting discussion ensued, in which Professor Louis, Mr. Stanley Weaver (of the Board of Agriculture), Mr. Kenneth Chance, Captain Goodwin, and others participated, after which M. Kestner was enthusiastically accorded very hearty thanks.

Associations' Winter Session.

Accrington.—A meeting of the Accrington Pharmacists' Association was held on October 31. Mr. J. S. Snell presided, and reported on the recent meetings of the Lancashire Association and Lancashire Federation. The Insurance dispensing terms for 1919 were adversely criticised, and many members showed that the additional 0.45d. per prescription would not cover the extra cost of wages, rates, and general expenses expected in 1919. The War Auxiliary Benevolent Fund appeal met with a very warm and sympathetic reception, and the Association pledged itself to a minimum of 12. per member, after an assurance by the President that the whole of the country would be represented on the Advisory Committee which will deal with claims. The action of the County Association with regard to the Glaxo letter was approved, and the opinion was expressed that Glaxo should either be given away to necessitous persons or sold through the usual trade channels at the usual trade prices. A rota was formed to work 7-o'clock closing on Mondays and Thursdays.

Belfast.—The President (Mr. E. J. Roberts) and Committee of the Chemists and Druggists' Society of Ireland held their annual reception at 11 Waring Street on October 30. After tea a musical programme was provided by Miss J. Scott, A.L.C.M. (accompanist), Miss L. Reside (violin), Miss M. Scott, Messrs. J. Scott, A. Jackson, and G. Fawcett, who were warmly thanked for their services, as were Messrs. Frackelton and Nevin, the organisers of the entertainment. A highly successful evening ended with the singing of the National Anthem.

Folkestone.—The annual meeting of the Folkestone Chemists' Association was held at Cave's Café on October 30. The President (Mr. Curtis), in his opening remarks, referred to some of the difficulties of the year through the shortage of supplies and Government restrictions, while appreciating the benefits of earlier closing, shutting down for the dinner-hour, and the substitution of errand-girls for errand-boys. The Treasurer's report showed a balance in hand of 5l. 16s. 2d. The officers were unanimously re-elected for the ensuing year. The Association resolved to support the action of the Proprietary Articles Trade Association with regard to Elliman's goods, and refuse to handle them pending a satisfactory settlement. The "B. & C. D." price-list was adopted as a minimum. The Secretary was instructed to write to Allen & Hanburys suggesting that they allow a profit of 25 per cent. on all their proprietary lines. The discussion on the War Auxiliary Benevolent Fund was deferred till the next meeting.

Irish Assistants.—At a meeting in Dublin of the Irish Chemists' Assistants' Association on November 4, it was decided to break off negotiations with the masters in regard to the demand for increased wages and better conditions of work, the offer of the employers being considered inadequate. Asked if this would mean an immediate cessation of work by employes, Mr. Owens (Secretary) said "No," adding that they would now deal individually instead of generally with the employers.

London Co.—The annual meeting of the London County Pharmaceutical Association was held on October 31. Mr. J. Keall presided. Mr. A. R. Melhuish, in moving the adoption of the annual report, paid tribute to Mr. Breese for his valuable services while acting as trade secretary, also to the work accomplished by the Secretary (Mr. G. A. Tocher) in connection with military service and pharmacy in London. He referred to Mr. Hatfield's illness in sympathetic terms. Mr. G. B. Barnard explained to the meeting the steps that had been taken by the Pharmaceutical Committee in the matter of the drug tariff, and moved the following resolution: "That the chemists on the panel present at this meeting, whilst agreeing to continue N.H.I. dispensing for the year 1919, nevertheless desire to express their keen disappointment with the terms offered." The resolution was carried. The Chairman then called upon Mr. W. S. Glyn-Jones to give an address on *The War Auxiliary Benevolent Fund*. Mr. Glyn-Jones, after referring briefly to the business which had just been concluded, made an eloquent appeal on behalf of the Fund. He asked: What would be the position if five, ten, or fifteen years after the war they had in pharmacy three or four thousand unqualified assistants from thirty to thirty-five years of age, and if these men were able to plead that they were debarred from qualifying because of a broken career due to military service during the war? It would surely be an invidious thing for the Society, in its statutory capacity, to have to prosecute these ex-service men for breaches of the Pharmacy Act. They must see to it that measures were taken to enable as many ex-service men of this class as possible to qualify. Such measures would have to include facilities not only for the instruction, training, and examination of the men sent back to this country, but also for those abroad awaiting demobilisation. And, above all, there was the case of the widows and orphans. Even when the State had done all that they had a right to demand of it, there would be special cases that would not be covered by hard-and-fast regulations. Speaking from the retailer's standpoint, he did not think they would be content to cast the burden unduly on the wholesalers with whom they did business. He sincerely hoped that London would take and keep the lead. In the course of a short discussion, Mr. Ralph suggested that every pharmacist in business should hand over one day's takings to the fund. Votes of thanks to Mr. Glyn-Jones and to the Chairman brought the meeting to a close.

Sunderland.—At the annual meeting of the Sunderland Pharmaceutical Association, held on October 31, all the officers were re-elected. The action of the Proprietary Articles Trade Association in regard to Elliman's Embrocation was emphatically endorsed. The War Auxiliary Benevolent Fund was warmly supported by subscriptions and promises of assistance.

West Bromwich.—A meeting of the West Bromwich Pharmaceutical Association was held on October 29. Mr. G. Hampton (President) in the chair. Mr. W. M. Hampton, B.Sc., read a paper based on Schuster and Shipley's book *Britain's Heritage of Science*, in which he endeavoured to show that the popular belief that scientific advance was largely a foreign product—that foreign men, and Germans particularly, had always led the way—was a fallacy. He sketched rapidly the lives and work of such pioneers in science as Roger Bacon, Napier, Gilbert, Newton, Dalton, Young, Faraday, Joule, Lord Kelvin, and Clerk Maxwell. Mr. Hampton hoped that as a result of the experience gained during the war the British manufacturer would lose a lot of his prejudice and old-fashioned ideas; that the Government and the manufacturer would co-operate, so that inventions and research by British scientists would be helped and used to the best national advantage, and not allowed to stray into foreign hands.

Wimbledon.—The annual meeting of the Wimbledon and District Pharmacists' Association was held recently. Mr. F. T. Bowen (President) in the chair, when the election of officers resulted as follows: *President*, Mr. J. H. Price-Bond; *Hon. Secretary*, Mr. C. J. R. Pretty; *Committee*, Messrs. Bowden, Bowen, Doe, Pretty, Price-Bond, Talbot, and J. A. Thomas. It was decided to meet in future on Tuesday evening instead of Wednesday afternoon. The Commissioners' proposed terms for Insurance dispensing for next year were accepted under protest as inadequate. The question of seven o'clock closing was deferred for the approval of the Insurance Commissioners.

TWINE is being made in California from the leaves of the yucca-tree.

A CROP OF PEPPERMINT raised at the Cobham Sewage Works has realised a profit of 25%.

Trade Report.

42 Cannon Street, E.C. 4, November 7, 3 p.m.

BUSINESS in many products has come to a standstill this week. The progress of the war is so rapid, and is being watched so intently, that there is a general disinclination to buy anything except from hand-to-mouth. It is not anticipated that when Peace is actually signed that there will be any demoralisation in prices, but there will probably be a fall in many products, on sentiment alone, and consumers should prepare for such an event. The quinine situation still commands interest owing to the Government having placed the distribution of a large quantity just arrived in the hands of one firm, which has dislocated the business. Eucalyptus oil steadily improves in value, the market now being supported by a legitimate trade demand, and less by speculation. Refined camphor has again been substantially advanced. Menthol reacted early, in the week, but closes steady; oil of Japan mint is easier; amidopyrin is rather firmer; bromides are quiet and salicylates steady; phenazone and phenacetin are in good demand. Barbitone, hexamine, hydroquinone, and phenolphthalein are among the cheaper products, as is liquorice-juice, copper sulphate, clove oil, and chlorophyll.

Higher	Firmer	Easier	Lower
Camphor (Eng. & Jap. ref.)	Amidopyrin	Agar-agar	Chlorophyll
Eucalyptus oil	Lemon oil	Anise oil, star	Clove oil
Jalapin		Barbitone	Cloves
Jalap resin		Coriander-seed	Copper sulphate
Leptandrin		Farina	Liquorice-juice
Veratrine		Fennel-seed	Saccharin
		Fenugreek-seed	
		Ginger	
		Hexamine	
		Honey	
		Hydroquinone	
		Mint oil (Jap.)	
		Phenolphthalein	

AMIDOPYRIN is very scarce, and about 5s. higher at 65s. per lb. for prompt delivery.

ANISE is quoted 80s. per cwt. for Russian and 110s. to 120s. for Spanish. A steamer has arrived at a Scottish port from Archangel with a miscellaneous cargo, including drugs and anise.

ANISE OIL, STAR, is a trifle easier, with spot sellers of "Red Ship" brand at 6s. 4d. per lb.

ANTIMONY.—Although the price of English regulus remains pegged at 85% under official control, there is no mistaking the easier feeling which has again asserted itself, chiefly in foreign refined. The reason for this is not far to seek. The impression having gained ground that a collapse of the war is not far distant, the importance of war demands is naturally being diminishing steadily, while it is taken for granted that when peace is actually declared the price is bound to fall very considerably. Had the prohibition of imports not been enforced some time ago the market would undoubtedly have been more quickly affected. As it is, the surplus available is not very large, and the price may stick to the "seventies" for some time yet. Some of the chemical manufacturers may be in want of Chinese crude, which is, however, practically non-existent here, and hence its value is nominally upheld pending further developments.

ARSENIC is feeling the effect of peace prospects, the market being in a comatose state in anticipation of a downward movement sooner or later, although not a few of the chief trade interests believe that the present range of prices will hold for some time yet, even after peace is an accomplished fact. This, however, remains to be seen, for it is quite possible that a certain amount of material is still being nursed, the liquidation of which may tell on prices. This would more particularly apply to the United States, where large stocks are said to exist. Government needs will presumably fall off, and new demands will doubtless be confined to actual requirements. Moderate parcels are still coming forward from some of the Colonies, but it is believed that in consequence of fuel difficulties the Portuguese production is now comparatively small. A wider range of values is not unlikely to be brought about in the near

future should surplus lots be pressed for sale in the face of an apathetic demand. Prices range from 95 $\frac{1}{2}$ upward.

ASPIRIN.—B.P. qualities continue very scarce at from 17s. 6d. to 18s. Several defective parcels are being offered on the market, so that caution is advised.

BARBITONE is offered at 90s. per lb. on the spot.

BENZALDEHYDE is offered at 15s. per lb.

BERGAMOT OIL is firm at 24s. 6d. per lb. on the spot or to arrive.

BROMIDES.—The demand for the salts appears to have been satisfied for the time being. Dealers quote potash at from 8s. to 8s. 6d. per lb., while it is stated that "limited supplies continue available in consequence of assistance rendered by the British Government in facilitating imports." Such, when available, are invoiced at 6s. 4d. to 6s. 10d. for crystals and 5s. 10d. to 6s. 1d. for granular, at 5s. for ammon. and 5s. 6d. for soda. It is doubtful when further supplies will arrive on Government account, as the makers in America are short of the potash salt, while they are sold out of soda for two months ahead, the demand having increased considerably.

CAFFEINE.—The English makers quote 50s. per lb. net for pure crystals for prompt delivery, and are now able to make forward contracts. Some parcels of Japanese make which have arrived are offered at 45s. B.P. citrate is 32s. 6d.

CALUMBA.—Arrivals aggregating 400 bags have taken place in Marseilles by steamer, and these have been offered to London. It is felt that the present fictitious price must be reduced.

CAMPHOR (REFINED).—Japanese has fluctuated during the interval, spot slabs selling down to 6s., but subsequently recovering to 8s. 4d. to 6s. 6d., which has also been paid; sales of 4-oz. tablets on spot have been made up to 7s. 6d. to 7s. 9d., with 8s. asked. The English refiners have raised prices still further, quoting bells at 6s. 1d. and flowers at 6s.; delivery can be had in very limited quantities only. It is of interest to note that the price of Japanese refined camphor in America is \$3.25 per lb., a new high record having been established, and the American refiners' quotation is \$1.35, but they cannot offer.

CAMPHOR MONOBROM. is plentiful on spot, and can be bought at 14s. per lb.

CANARY-SEED is steady at 340s. to 360s. per quarter for fair to good quality.

CASSIA FISTULA.—Small spot sales of West Indian have been made at 160s. per cwt.

CHLORAL HYDRATE in quiet demand, with some holders asking 14s. per lb. on the spot for duty-paid crystals.

CINCHONINE SALTS.—During the past few weeks there has been a "run" on these salts, and the London stocks are almost cleared.

CLOVE OIL can be bought from second-hands at 20s. per lb.

COPPER SULPHATE is dull and lower, the f.o.b. export price being 60 $\frac{1}{2}$, less 5 per cent. It is reported that some business has been done in English sulphate in the French market at 170fr. per 100 kilos, and that concessions have been made in some quarters on this side in connection with offers arising from unsold stocks speculatively held, and as a result of arrangements with the French Ministry of Agriculture. Should the war terminate soon it is not improbable that an extension of export facilities will be afforded by the authorities.

CORIANDER-SEED is slow of sale, and quotations are nominal at 50s. per cwt. for old crop, and 60s. for new crop. Morocco.

CUMIN-SEED is quiet at 55s. to 60s. per cwt. for ordinary to good Morocco, and at 67s. 6d. for Malta.

DILL-SEED is steady at 62s. to 64s. per cwt. for ordinary to good East India.

EUCALYPTUS OIL continues in good demand at rising prices, the bulk of the business being at from 4s. 2d. to 4s. 6d. per lb. for B.P. qualities, some asking 4s. 9d. The principal demand is for legitimate trade purposes.

CREAM OF TARTAR is slow of sale, but prices are steady at from 41s. to 42s. The imports of cream of tartar into the United Kingdom during the past five years have been as follows:

	1913 Cwt.	1914 Cwt.	1915 Cwt.	1916 Cwt.	1917 Cwt.
Germany ...	35,944	20,239	—	—	—
Netherlands ...	5,764	3,548	—	—	—
France ...	31,154	28,111	26,293	20,888	21,848
Portugal ...	1,404	1,195	1,141	1,761	1,499
Spain ...	22	345	2,541	2,741	4,694
Italy... ..	5,040	10,639	11,686	9,858	10,014
Greece ...	356	1,605	4,322	1,050	—
United States of America	—	1,003	8,316	384	285
Other Foreign Countries	16	6	10	50	48
Total ...	79,700	66,691	54,314	36,732	38,388

The re-exports were as follows:

To	1913 Cwt.	1914 Cwt.	1915 Cwt.	1916 Cwt.	1917 Cwt.
Russia ...	—	—	314	404	42
United States ...	2,699	122	—	—	199
Other Foreign Countries	375	197	217	327	165
Total to Foreign Countries ...	3,074	319	531	731	406
Union of South Africa... ..	975	731	684	703	522
Australia:					
Victoria ...	93	447	1,651	2,267	1,803
New South Wales ...	37	561	2,463	1,607	3,040
Queensland ...	200	707	423	1,221	896
Other Colonies ...	139	457	841	660	795
New Zealand ...	108	552	1,597	1,461	1,810
Canada... ..	4,917	4,657	4,492	3,361	543
Other British Possessions	447	351	223	141	109
Total to British Possessions	6,456	8,503	12,374	10,821	9,518
Total ...	10,020	9,222	12,505	11,552	9,924

FENNEL-SEED is unchanged at 50s. to 55s. per cwt.

FENUGREEK-SEED.—The demand has fallen off; the quotation remains at 43s. 6d. per cwt.

FORMIC ACID is offered at 225 $\frac{1}{2}$ per ton for 80-per-cent. pure in casks on the spot.

GINGERS are in casier tendency, Japanese offering at 125s., African at 120s., Calicut at 157s., washed Cochin at 160s., and Jamaica at from 165s. to 180s. per cwt. on the spot.

GLYCEROPHOSPHATES.—The scarcity still remains acute. Supplies from the United States appear to be held up, but the liberation of permits for, say, a ton would ease the situation.

GUAIACOL CARBONATE can be bought at 85s. per lb., but this price could be shaded from consignments now on the way from Switzerland.

HEXAMINE.—The demand has been such as to absorb the recent arrivals, and for quantity 6s. 9d. per lb. is wanted.

HONEY.—It is reported on good authority that the Ministry of Food is to control prices shortly. If this should prove to be the case, values will have to be on a lower scale than those now ruling. As a fact, prices are already easier.

HYDROQUINONE is slightly easier at 16s. per lb.

JALAP RESIN.—Makers have advanced the price by 5s. to 35s., and the powdered to 36s. 6d. per lb. net; Jalapin powder is also dearer at 45s.

LEMON OIL is steady at from 5s. 2d. to 5s. 3d. per lb. on the spot, and to arrive from 5s. 6d. to 5s. 10d. c.i.f. is quoted. A Silician advice dated October 22 states that the Government requisition has been going on on a fairly large scale, strengthening the position of the market in such a way as to influence rather heavily the prices for old crop. It seems that figures for new crop will also be affected, as the Government will still take up further large quantities in place of oil of turpentine, and owing to the reduced available supply producers are already keeping up prices as much as they can for export.

LEPTANDRIN has advanced 3s. per lb., makers quoting 18s.

LIQUORICE-JUICE.—The extremely high prices asked in one quarter for finest Sicilian block have been reduced to 460s., and stick to 525s. to 535s. per cwt. c. and f., which prices are still considerably above what spot holders asks for finest Sicilian block—viz., 372s. to 375s. per cwt.

LIQUORICE-ROOT.—Natural Italian cut is offered at 150s., and cut decorticated at 190s. per cwt. c. and f.

MENTHOL is quiet but firm, the spot value of Kobayashi-Suzuki being 20s. 3d., with buyers at 20s.

METHYL SALICYLATE has sellers at from 6s. 6d. to 7s. per lb. on the spot.

MINT OIL is quiet, with spot sales of Japanese dementholised (Kobayashi-Suzuki) at 6s. 7 $\frac{1}{2}$ d., sellers asking 6s. 9d.; sellers to arrive quote 6s. 4 $\frac{1}{2}$ d. to 6s. 6d. c.i.f.

NUX VOMICA.—Arrivals are taking place on a much more liberal scale, and the market is quiet, the spot value of Calcutta being about 70s. per cwt.

ORRIS continues to show a rising tendency, the spot value of fair sorts being about 160s. This product should be cheaper in Italy after the war, but much will depend upon the requirements of those countries whose imports have been cut off for at least three years.

PARAFORMALDEHYDE.—There is a limited stock on spot, for which 7s. 3d. to 7s. 6d. is asked.

PARALDEHYDE.—Keen competition has forced down the price to 9s. per lb., which seems an attractive figure.

PHENACETIN has moved off much more freely into consumption, but competition for orders is strenuous, and 17s. 6d. will still buy. Although the market is glutted with stocks, export licences are being severely cut down, indicating a cautious policy on the part of the authorities. This is probably in view of the scarcity of aspirin.

PHENAZONE is very firm for both prompt and early delivery, owing to continued scarcity. France has none to

spare, and Switzerland requires a large portion of her production for home use, as it is estimated one-seventh of the population is suffering from "influenza."

PHENOLPHTHALEIN.—Stocks have just arrived, and the price has receded to about 40s. per lb.

QUININE.—The situation in quinine still commands considerable attention, although nothing further has transpired in regard to the prices to be fixed by the Army Council. Meanwhile, a considerable quantity has arrived by the *Antilocus* from Java to Liverpool. The bulk of this quinine was originally sold by the London agents for the Dutch and Java factories to a number of wholesale druggists and manufacturing chemists who are intimately acquainted with the legitimate needs of the trade. To their surprise, however, the consignments just arrived have been commandeered by the Government, who have handed them over to one manufacturer for distribution. It is now asked in all good faith why should it be necessary to needlessly interfere in the natural process of sale and delivery by taking the distribution out of the hands of agents who had sold the goods and pass them through another channel. Muddle, delay, and vexation is now likely to arise through what is regarded as high-handed proceedings. The agents are placed in an invidious position with their customers, and, apart from the disturbance caused, the dislocation is likely to be far-reaching unless some understanding is reached. Meanwhile, the country is clamouring for quinine, but the new measures which have been taken will, it seems, tend to retard rather than hasten delivery. Small wonder is it that a body like the Imperial Commercial Association was recently formed to protect the rights of merchants!

QUINOIDINE is being used largely on the Continent for "influenza," owing to the scarcity of quinine, and it may easily come into vogue in this country also.

SACCHARIN continues very quiet, prices being irregular on spot, American 550 pure offering at from 240s. to 245s. per lb. net, duty unpaid, equivalent to 372s. to 375s., duty paid. According to a New York advice of October 10, the market continues to decline in the absence of export demand. Insoluble is quoted at \$17.50 to \$18.00, while soluble, which is not quite so plentiful, is held at \$19.00 to \$20.00 per lb. [We understand that for near-by delivery \$10.00 per lb. would be accepted.]

SALICYLATES.—Salicylic acid is steady and unchanged at from 4s. 3d. to 4s. 6d. per lb. for B.P. qualities. Sodium salicylate is also unchanged at from 5s. 9d. to 6s. for B.P. powder. It is anticipated that there will be a large demand for salicylic preparations this winter, following on the "influenza."

SALOL is still slow of sale at from 8s. 9d. to 9s. per lb. on the spot.

SALTPETRE.—Current prices are: British crystals and granulated in 1-cwt. bags, 66s. per cwt., and in 2-cwt. bags 65s. for less than 5 cwt.; 6d. less for 5 cwt. and upward; powdered 2s. per cwt. extra.

SANDALWOOD OIL.—Importers of Mysore distilled offer in bulk at 50s. net per lb., and small lots at 52s. net.

SANTONIN.—We understand that a further increase in price is anticipated shortly owing to the reasons given in an Editorial article on page 44.

SASSAFRAS OIL.—True American ex consignments now landing is offered at 18s. per lb.

SLIPPERY-ELM BARK.—Limited supplies are obtainable at 3s. 2d. per lb., and powdered at 3s. 10d.

SODIUM HYPOSPULPHITE.—Ordinary crystals are offered at 40s. and pea crystals at about 50s. per cwt.

SODIUM SILICATE in ton lots is offered on the spot at 32l. per ton.

TAMARINDS.—Small spot sales of West Indian have been made at 150s. per cwt.

TARTARIC ACID is steady at from 3s. 10½d. to 3s. 11d. per lb. on the spot.

TERPIN HYDRATE is offered at 4s. per lb.

TERPINEOL.—The spot stock is in very few hands, as it is difficult to obtain permission to import; 11s. is current value.

TURPENTINE.—There has been no alteration since the reduction in September, while fair quantities are available for trade requirements. American and French, half each, are quoted at 105s. per cwt. ex wharf London, no discount.

ZINC PRODUCTS.—Considerable quantities of zinc dust were recently allocated to users for essential work out of two fair-sized consignments about due to arrive at home ports. A large outlet has yet to be satisfied, and efforts are made to divert additional supplies to this side from Australia. Prices range from 90l. for low-grade English up to 108l. for best Australian, the former figure being understood delivered at works, and the higher quotation c.i.f. U.K. zinc oxido is wanted, but prices continue chiefly nominal for English, while foreign descriptions vary from 75l. and 95l. up to 100l. delivered London warehouses.

Port of London Charges.

In consequence of the award recently made by the Committee on Production granting to dock labourers an additional war advance of 1½d. per hour, the Port of London Authority has been compelled to request the Board of Trade to sanction as from November 1 a further increase of 20 per cent. in the dues, rates, and charges on vessels and goods using its dock and warehouse undertakings. This makes an increase of about 85 per cent. over the pre-war charges, entirely due to advances on wages and consequential additional expenditure.

Bulgarian Otto of Rose.

According to the "Wirtschaftsztg. der Zentralmächte" the Bulgarian rose-growers have formed a league to safeguard the interests of the rose-oil producers. The financial organ of this league is the "Rozowa Banka." It is concerned with the testing of otto, and adulterations are less frequent now that no products are put on the market before being tested by the Chemical Institute of the bank. This year's rose harvest has failed, and in consequence of this and the rise in working costs a further increase in prices has resulted. The cultivators have resolved to fix the price for rose oil at leva 4,000 per kg. In retail trade a bottle containing 5 g. costs leva 20. These prices are surprising in view of the fact that the oil cannot be exported. The above report may be read in conjunction with that given in our issue of October 12 (p. 49). All reports with regard to the state of the crop must be taken with reserve.

Japanese Sulphur.

The output of sulphur in Japan shows a considerable falling-off owing to the enormous advance in freight rates to Australia—Japan's best customer for sulphur. The steamship companies have raised their freight rate to Australia to 95 yen per ton, while they were charging 35 yen last year. Therefore the c.i.f. Australian port's price of sulphur selling at net 55 yen per ton in Japan will be more than 160 yen in Australia (including freight, marine insurance, war risk, and other charges), which is quite prohibitive at that place. The merchants of that country will not give any orders to Japan until the freight rates show some decrease. On the other hand, the customers of India, South Africa, and the South Sea Islands, having placed too many orders during last season, are not active at all now, and the market is very quiet. About 35,000 tons of previous orders are ready for shipment, lying at the manufacturers' warehouses on account of the scarcity of bottoms. Under such circumstances, some of the Japanese refiners are in a serious financial condition, while others have even become bankrupt.

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the Ports of London and Liverpool:

To London (Oct. 26 to Nov. 1).	pks.; tanners' bark. 1,084 tons Gelatine, 210l Monazite sand, 700l. Perfumery, unrated (most y raw materials), 4237; toilet powder, 4,024l. Plumbago, 3,000 bgs. 1,159 brls. Starches (cwt.): farino (potato starch), 1,414 Wax, bees', 397 pkgs. 20 cs. Wax, paraffin, 5,847 cwt.; scale, 540 cwt. Wax, vegetable, 150 cs. Zinc oxide, 1,040 brls.	Tannic acid, 10 cs. Drugs, etc., unrated 51 pkgs.; herbs, 69 cs. Balsam Canada, 2 brls. Balsam tolu, 25 cs. Camphor, 59 cs. Cassia bark, 7 bgs. 10 brls. Cinchona, 2 brls. 45 cs. Copaiba, 26 cs. Lycopodium, 34 bgs. Sasaparilla, 15 brls. Senege, 23 brls. Yerba mate, 14 cs. Dyestuffs, dyeing and tanning materials, etc., unrated, 28 cs.:
herbs, 6 brls.; resinol ointment, 725l. Cinchona, 714 pkgs. Nux vomica, 2,526 pkgs. 466 pockets Sasaparilla, 132 brls. Dyestuffs, dyeing and tanning materials, etc., unrated, 145 pkgs. 586 cs.: cutch, 500 brs.; dividivi, 1,000 bgs.; gambier, 3,218 cs.; indigo, 26 cs.; logwood ext., 5 pkgs.; myrobalsans, 20,800 pockets, 4,200 pkgs. 800 bgs.; myrobalsans ext., 2,400	To Liverpool (Oct. 28 to Nov. 2). Bronze powder, 2 brls. Casein, 1,900l. Chemical products, etc., unrated: Antimony sulphide, 500 cs. Calcium borate, 1,564 bgs. Cream of tartar, 1 cs. Hexamine, 22 cs. 12 drms. Iron, reduced, 5 kgs. Potash iodide, 10 cs. Pyroallic acid, 2 cs. Safrol, 2 drms. Soda bromide, 5 brls. 10 cs.	chestnut ext., 1,113 cs.: cutch, 609 brs.: gambier, 2,530 cs.: logwood ext., 357 cs. Insecticide (tanglefoot), 2,000 cs. Monazite sand, 25 tons Plumbago, 160 cs. 20 brls. Starches (bags), 460: farina, 420 bgs. Wax, bees', 60 brls. Wax, paraffin, 208 bgs. 151 brls. 279 pkgs.; scale, 9,645 brls. Wax, vegetable, 417 cs.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Guaranteed Clinicals.

SIR,—The trade-mark of the National Physical Laboratory should become a valuable asset to exporters of British clinical thermometers. As an independent guarantee it should serve to win for British thermometers a pre-eminent reputation for trustworthiness in world markets. The United States and our own Colonial Governments have found the departmental brand a valuable commercial asset in the case of graded agricultural produce. We shall doubtless see an extension of the principle involved in the forthcoming days of reconstruction.

Yours truly,

HAROLD E. MATTHEWS.

Clifton.

Saccharin Tablets.

SIR,—Regarding your recent article on the assay of saccharin and the subject of the strength of the tablets, I think it might be well to point out that a certain latitude ought to be allowed in considering the content of the tablets as determined by analysis. The analytical figure presupposes a 100-per-cent. saccharin. A good average for saccharin may be taken as 97 per cent., but different samples vary from between 95 to 100 per cent., and the results of different analysts again by about 1 per cent. on the same sample. In dealing with considerable quantities of tablets these differences multiply up, and may reflect very unsatisfactorily, especially from a financial point of view. It is therefore very necessary to exercise some judgment before condemning a batch as deficient. In the ordinary way, while expecting to find 0.3 to 0.29 grains of absolute saccharin per tablet of "full strength," one containing 0.285 should certainly be passed; and, unless the analyst is extremely sure of his results it would, perhaps, be unwise to treat a content of 0.28 grains as a culpable deficiency on the part of the manufacture without stronger evidence than an isolated report, confined solely to an examination of the tablets.

Yours faithfully,

PH.C. (218/21.)

The Saccharin Situation.

SIR,—We have read with much interest your article under the heading "The Saccharin Situation" (*C. & D.*, November 2, p. 45), and there are one or two points in it upon which we should like to offer some comment. With regard to the loss to American manufacturers as a result of the embargo, we should like to draw your attention to the following facts. American saccharin has been imported into this country and sold at prices varying from 420s. to 350s. per lb. The duty is 132s. per lb., leaving an amount varying from 288s. to 218s. From this one must deduct freight and insurance, which amounts to approximately 5s. per lb., leaving from 283s. to 213s. for the middleman's profit and the maker's return. The middleman's profit varies considerably, and may be anything from 18s. to 88s. per lb., leaving a net return of approximately 200s. per lb. to the American manufacturer. English makers are under contract to supply all their output to the Sugar Commission at a price not exceeding 40s. per lb. This amount is the maximum price paid, and has to include not only profit but also all manufacturing costs, depreciation, research, etc. Assuming that the manufacturing cost is 35s. per lb., the American manufacturer and middleman have been making a profit of from 248s. to 178s. per lb., which amounts to a profit of from 27,775l. to 19,935l. per ton. With these figures before us, and knowing that several tons were exported from America this year, we can understand the outcry in America when the embargo was enforced. According to the table published by you—354,469 oz. = 22,154 lb.—or, roughly, 10 tons, of saccharin was imported from America in 1917, representing a net profit taken by the American manufacturer and middleman from this country of at least 190,000l., but nearer 277,000l. As to shares taken by the American manufacturer and the middleman, we calculate that the American manufacturer gets approximately 200s. per lb., leaving him a profit of 165s. per lb., or 18,480l. per ton; but you state that since the embargo the price in New York has dropped by \$15 to \$20, so that during the period of free export the price was \$35, or 145s. per lb. The profit, therefore, will be 110s. per lb., or

12,320l. per ton, on a manufacturing cost of 3,920l. per ton, or a 314 per cent. profit on turnover. On these figures the middleman in England must have made at least 19,935l., less 12,320l., or 7,615l. per ton, but more nearly 27,775l., less 12,320l., or 15,455l. per ton. There is a much more serious aspect concerning the above details than would appear at first sight, for, while the British manufacturer makes a bare 5s. per lb., or 560l. per ton—and less than this in some cases—the American manufacturer is able to make huge profits, which he uses for building up other industries, thus placing himself in a favourable position to compete with British industries in open market after the war. Thus the American manufacturer is subsidised by British money, while the British manufacturer is very severely handicapped. As manufacturers of saccharin we have no objection to American importation so long as the same facilities are extended to both manufacturers, but importation under the conditions which obtained in the recent past is grossly unfair to the British manufacturers. One other point in your article concerns the British manufacturer very seriously. We refer now to your statement that the quality of the British-made saccharin is not equal to that of the best American brands. We take very serious exception to this statement, as we claim—and we can substantiate that claim by facts—that our saccharin is of a better quality than the best American brands we have handled. Every legal package weighed for duty, and taken from our factory, is analysed, and we give below the results of analyses of one hundred samples taken at random:

12 per cent. of the batches contained no impurity whatever.
51 per cent. of the batches contained slightly less than 1 in 1,000 impurity.

34 per cent. of the batches contained less than 2½ per cent. impurity.

3 per cent. of the batches contained less than 5 per cent. impurity.

We have tested many samples of the best American saccharin, and we have never found it pure, even though it is guaranteed pure when sold. In fact, we have never examined a sample of American saccharin containing more than 96 per cent. pure saccharin. A comparison of the above figures proves that your statement is unjust so far as our own product is concerned, and we challenge anyone to prove that the saccharin produced in our factory is not within the degree of purity represented. Indeed, we have had to consider seriously whether or not we ought to reduce our quality to that of imported saccharin, since we are at present providing a superior article at a lower price than that obtained for saccharin of inferior quality.

Yours faithfully,

THE COOPER LABORATORY FOR ECONOMIC RESEARCH.

Watford.

H. E. LAWS.

How Advertising Helps.

SIR,—“Mortar” says “the evil is the outside competition of other traders.” I maintain that the advertising favourably predisposes people towards the article advertised; the more continuously and largely it is advertised the more are the prospective customers increased, with a further development of the outside competition of other traders. “Pushing lines that outside competition cannot follow up,” as suggested by “Mortar,” would not restrict this consumer-demand, while it would cut off from the chemist the sales of those articles that his customers are most frequently demanding. The question is largely determined by personal salesmanship and service; the public will shop where they get the best service, coupled with the goods they want. It will not be solved by a chemist trying to sell to his customers goods he wants them to buy; and the sale of goods which “outside competition cannot follow up” have so infrequent and spasmodic a consumer-demand that they would but ill-support any pharmacy.—Yours faithfully,

ALEC NATHAN.

155/7 Great Portland Street, London, W.

Insurance Dispensing.

SIR,—In this question of Insurance dispensing there is no doubt we are making less now than when we began. The idea of net cost of drugs ought to be done away with. What am I to do with the special things ordered a few times by doctors and then dropped? Which of us but has a cupboard full of these things? Then again, a doctor takes a fancy for some special preparation such as inf. rhei; runs it for some time; I buy a few Winchesters to get a little advantage in price; and then without warning he changes to pulv. rhei, and so I am stranded with an unsaleable article. There are a thousand reasons why (if time allowed to tell) the net price idea of drugs ought to be done away with.

Yours respectfully,

LANCASTRIAN. (198/53.)

"Lest we Forget."

SIR,—The "Daily Express" calls attention to the "literature" which German manufacturers are in the habit of circulating with a view of stimulating the war fever in their employes. The following, quoted from the Brunswick "Volksfreund," is particularly interesting to the drug-trade of this country:

One of these, just issued by Friedrich Bayer & Co., and bearing the beautiful title, "The Swinehound," lies before us. In it we find the following dainty sentences from the pen of a Dr. Möllenhoff:

"At the beginning of the war the swinehound was quiet enough; his bestial voice did not harmonise, he felt, with the sacred tones of pure patriotism that resounded through the land. Then he began to bark softly, and finding that those who could have kicked his inside out were away fighting the good fight, the cowardly beast took courage, until night and day his swinish yelp—half-grunt, half-bark—re-echoed in our ears: 'We shall lose!' and the whine: 'Let us beg for peace!'"

"If you talk to the swinehound reasonably and try to convince him that there is no ground for his terrified bark, he growls that the enemy is very strong, that food is very scarce, and so forth. For every word you say he has ten in his swinish language."

"German men and women! Take care that the swinehounds do not spoil our game. They are more cunning than the enemy. Lay hold of them with all your might, especially the large ones. Do not tolerate their whimpering, barking, and howling, tighten their muzzles, lock them in their kennels, slash them across the dirty snout, and send them to hell!"

I recollect that Bayer's was specifically mentioned in our Parliament as being the first to manufacture poison-gas on the large scale, and, as the "Daily Express" remarks, gigantic profits ensued. Naturally this enterprising pharmaceutical concern, so well known to us before August 1914, is sorry that the war is drawing to a close. These Huns are faced, too, with the ugly prospect of British custom for aspirin, phenacetin, etc., gone for ever. Meantime, however, what are we pharmacists doing to see that the British manufacture of the once German monopolies is maintained and extended? Have we, for instance, approached our doctors with a view to inducing them to prescribe only British-made products in the future? Have the Pharmaceutical Society and our Trade Associations yet made any move towards securing suitable legislation to protect British-made chemicals, etc., against foreign competition in the future?

Yours, etc.,

LEINSTER. (4/11.)

Warning to Chemists.

SIR,—Will you permit me to use a little of your space to warn fellow-chemists against a swindler who entered my shop yesterday. His procedure was as follows: Dressed as a military officer but rank concealed by a mackintosh, he made inquiries as to the possibilities of obtaining a water-bed quickly. Then followed such questions as how many Bengers' Food can you spare? A. & H. Dict; quinine—how much can you obtain by this time to-morrow, etc.?—eventually running up a bill for 7l. 18s. 4d., all scarce products. Mentioning that his man would call at 5.30 for the goods, and also to know about the water-bed, quinine, etc., he produced a cheque for 12l. 4s., signed C. M. Duncan, Lieut.-Colonel. I wrote a cheque for the change; he quite casually mentioning he could do with a couple of pounds or so in silver. No man called for the goods, and on presenting the cheque at the bank it was returned endorsed "No account." Fortunately as I wrote a cheque for payment of change, and was in time to stop payment, I escaped with no worse than getting 20 oz. quin. sulph. on my hands—six months' supply in usual way—and a water-bed, the order for which Maw's kindly cancelled.—Yours faithfully,

Clapham, S.W.

A. THOMAS.

Publicity Profit on Proprietaries.

SIR,—It is not possible for a chemist to take serious exception to a letter such as "Kappa's," which was written with such diffidence and courtesy. In a word, I could give him some grandfatherly advice, and it would be—"Don't!" His letter is so brimful of innocence that I cannot be cross with him—not even where he presumes to write, "Now if the chemist is to be asked to influence demand, he must be paid for his services . . . there should seem no reason why the retailer, for the service of publicity," etc., etc. What on earth does "Kappa" imagine chemists spend years of their lifetime studying for? They do it to compound their own preparations apart from being in a position to dispense physicians' prescriptions. "Kappa" should stick to his "ordinary profession" instead of becoming a financial adventurer, poaching on chemists' preserves. Other people's proprietaries do not mean additional grist to the chemist's till, mathematically speaking—they are subtractive.

Yours faithfully,

PAPPA. (216/35.)

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

S. O. (196/45).—GREASE BANDS FOR TREES.—The following are useful formulas:

I.		II.	
Cart-grease,		Resin...	5 lb.
Soft soap ...	... equal parts	Fish oil ...	1 gall.

Boil together.

M. P. S. (203/58).—DOSES FOR DIFFERENT AGES.—The dose for an adult (twenty years of age) is taken as the unit. The following are the equivalent doses for various ages: Ten to 15 years of age, $\frac{2}{3}$ to $\frac{3}{4}$; 7 to 10, $\frac{1}{2}$; 4 to 7, $\frac{1}{3}$; 2 to 4, $\frac{1}{4}$; 1 to 2, $\frac{1}{8}$ to $\frac{1}{10}$; one year, $\frac{1}{16}$ to $\frac{1}{12}$.

J. S. S. (205/66).—BALANCE-SHEET.—You are drawing this up incorrectly by including the total of invoices and then also noting accounts owing by you. You would in this way be charging yourself twice over with some items. The best and easiest way is to find your gross profit first and then deal with the question of net profit.

E. R. (207/3).—A LICENTIATE OF THE SOCIETY OF APOTHECARIES is a qualified medical man. An assistant, who is a person qualified to dispense for an apothecary, passes a simple examination in dispensing and allied subjects. An apothecary who employs an assistant who has not passed this examination is liable to penalties.

E. N. (204/50).—DEPRECIATIONS OF FIXTURES AND UTENSILS should not appear in a trading account, but in a capital account, which is only done by big wholesale concerns involving public capital. "Mack's Ledger" puts it all very clearly, and you should get a copy. If you spend 3l. or 4l. yearly in repairs and renewals, this takes the place of depreciation. As to depreciation of stock, in a well-watched stock, and especially during war-time, unless you are quite recklessly overbuying (if you can find saleable goods to overbuy), there is not only no depreciation of stock but a very big appreciation. In big dispensing businesses there is dead stock left on shelves, but that should be discounted by charging well for such oddments when they are first ordered.

G. D. M. (188/21).—BOOK ON JAM-MAKING.—We do not know of any book devoted to this subject. It is dealt with in Skuse's "Complete Confectioner" (W. J. Bush & Co., Ltd., 7s. 6d.).

D. J. W. (200/57).—MEDICAL PRELIMINARY.—Latin is required in the Preliminary examinations for the medical profession unless the student proceeds to obtain the London medical degree. In this case he may have taken the Matriculation examination without having had Latin as one of the subjects. As a matter of fact, most students take Latin as a subject, but we mention the exception as showing the possibility of becoming a medical man without taking Latin as an examination subject.

Pusher (216/33).—We have no formula for poultry-powder containing vesicating insects.

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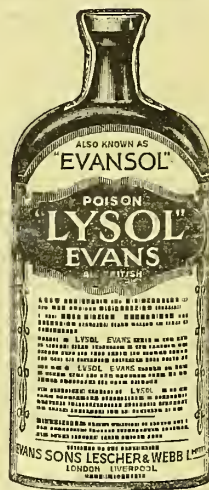
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IODARGOL.

* Electro-Chemical Colloidal
Iodine in various forms.
Specially successful as an Injec-
tion in Gonorrhœa. Painless.

MERSALV.

A fine Mercurial Cream.
Contains 10 per cent. Metallic
Mercury.
A non-greasy preparation,
entirely and quickly absorbed.

OPOLAXYL.

For Constipation. A combina-
tion of pancreatic, biliary, and
intestinal secretions. A normal
regulator of the intestinal func-
tions. Tablets.

URASEPTINE.

Composed of Urotropine and
Helmitol.
A powerful Urinary Antiseptic.
Dissolves and eliminates Uric
Acid.

AMBRINE

Ambrine is the *Only Authorised Preparation* of Dr. BARTHE
DE SANDFORT. We are compelled to state this, as there are
various imitations.

Treatment by Ambrine is the most efficient means of
ensuring active Hyperthermal Therapy.



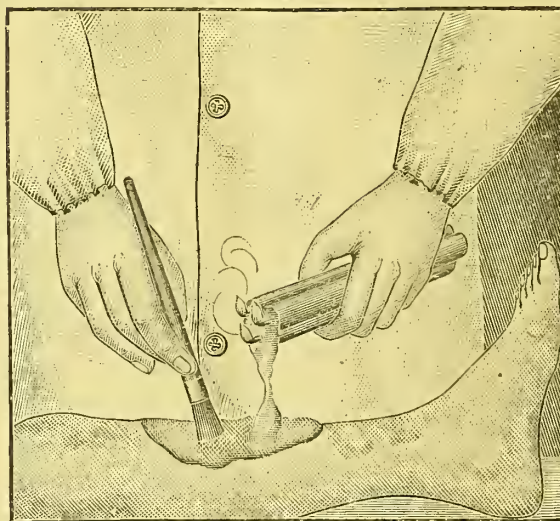
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AMBRINE TRICANDLE.

*Illustrated below is the mode of using
THE*

AMBRINE TRICANDLE



"The valuable physical properties of Ambrine are almost
ideal."—*Vide "Surgery, Gynecology and Obstetrics," April
1918.*

DRUGS AND CHEMICALS.

Quotations
given for
Large or Small
Quantities
— of —
Fine Chemicals

and Drugs
direct from
Paris.



We shall
be pleased
to receive
Manufacturers'
latest Lists
— of —
Lowest Prices.



OFFICES:
42 CANNON STREET,
LONDON, E.C.4

NOVEMBER 9, 1918

Advertisements for this Supplement must be received not later than First Post on Thursday Morning.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID (except in the case of serial advertisers)**, and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS**.
Advertisements for the current issue cannot be received after first post on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done
PROVIDED THE MONEY IS TELEGRAPHED
at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C.4. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 2617 Central (3 lines). Telegraphic Address: "Chemicus, Cannon, London." (Three words counted as two.)

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, N.W.—Good-class Business; Retail and Dispensing; net profit £600; well-appointed shop, nicely fitted and fully stocked; valuation terms would be considered, or lump sum offer.

2.—LEWISHAM.—Death vacancy; all good middle-class trading; excellent position; returns average £1,200; gross profit about £50; well-appointed shop and comfortable residence; price £600.

3.—KENT.—Modern Pharmacy, situate in pleasant district; ill-appointed shop and ample stock; returns, present rate, £1,500; der. management; the business admits of extension; full investigation invited; part payment.

4.—LONDON, N.—Old-established Business; Retail and Dispensing; returns between £1,900 and £2,000 per annum; gross profit £700; well-appointed shop and ample working stock; my house, with side entrance; held on lease; no immediate position; price to be arranged equitably; the business is one I can recommend, and is worth the attention of a gentleman with good-class experience.

5.—MAIDA VALE (Near).—An exceptionally good and reliable business in select residential locality; returns £2,219; net profit £600; terms, valuation of stock and fixtures, and sum for goodwill to be agreed equitably; vendor retiring.

6.—LONDON, S.W. (Busy Main Thoroughfare).—Very old-established Business; Dispensing and Retail; returns about £1,600; gross profit about £500; books open to inspection; price £1,500.

7.—LONDON, N.W.—Ready-money Business; returns, present rate, £30 per week; gross profit about one-third; rent £50; no opposition; price £350 for speedy transfer.

8.—SOUTH COAST.—An established good-class Retail and Dispensing Business, held by vendor many years; returns, present rate, about £1,200; well-fitted shop; vendor is giving up owing to ill-health and advanced years; a reasonable offer would be considered.

9.—GLOUCESTERSHIRE.—Old-established Business, situate in one of the best positions in good market town; returns between £1,600 and £1,700; commodious residence, with private entrance, garden, and greenhouse; price about £1,000.

10.—EASTERN COUNTY (Market Town).—At the value of stock and fixtures and nominal sum for goodwill; a good-class Retail and Agricultural Business, returning about £1,400 at good prices; capital residence, with private entrance, and commanding double-fronted shop; situate in the centre of town; death cause of sale.

11.—SOUTH COAST (Seaport).—Cash Retail Business, capable of extension; returns, present rate, £600; the shop offers a good nucleus; small residence; rent moderate; price £300.

12.—STAFFS.—Ready-money Retail, with N.H.I. Dispensing; established many years; returns last year £2,456; full investigation invited; rent £30; offer wanted.

13.—A profitable old-established country Business in centre of market town, Gloucestershire, giving net profit £270; double-fronted shop and good residence; valuation terms entertained.

14.—HOME COUNTY (Health Resort).—Modern Pharmacy, situate in principal street; returns exceed £1,000; full investigation permitted; the shop is nicely fitted and fully stocked; convenient residence; terms, valuation of stock and fixtures and £100 premium.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

1.—LONDON, W.—High-class neighbourhood and shopping centre; valuable lease at very low rent, including Pharmacy, Dental Surgery, and sitting room, nicely fitted; has done well; recently neglected; will dispose of fixtures; in excellent condition, either with lease as a going concern; £200 cash; stock reduced elsewhere. Apply 89/23, Office of this Paper.

2.—MANCHESTER DISTRICT.—Old-established middle-class Retail; corner shop; main thoroughfare; weekly takings between £10 and £40; N.H.I. Dispensing; valuation, stock and fixtures. Apply 72/27, Office of this Paper.

3.—A PHARMACIST offers good-class Dispensing, Family, and Light Retail Business for sale as going concern, owing to his going into Wholesale appointment; good residential neighbourhood outskirts of large town, North of England; profitable turnover over £1,200; established 1900; no Insurance; own premises; well fitted and fully stocked; valuation of business about £600; net profit £1,200; only genuine replies entertained and references required. Apply 88/8, Office of this Paper.

FOR immediate sale, on account of illness and bereavement, a Dispensing and Prescribing Business in one of the nicest residential parts of Hove; takings about £600; can be easily doubled by an energetic man with more stock; a good house; rental £50; price £300. Apply "B." (91/28), Office of this Paper.

SALES BY AUCTION.

B. G. K. Clarke, Deceased.—Sale at Eleven o'clock.
6 BLADUD BUILDINGS, BATH.

SALE OF CHEMIST'S STOCK, FIXTURES, AND REMAINING PORTION OF HOUSEHOLD EFFECTS.

FORTT, HATT & BILLINGS are favoured with instructions to Sell by Auction, upon the premises, on FRIDAY, NOVEMBER 15th, 1918, at Eleven o'clock, the STOCK-IN-TRADE and FIXTURES, comprising the whole of the Stock and Fixtures of the late Mr. B. G. K. Clarke (in and upon the premises).

Also a small quantity of HOUSEHOLD FURNITURE, comprising Mahogany Wardrobe, fine French Ormolu China Cabinet, a small collection of Antique China, pair Blue and White Pharmacy Bottles, and interesting effects.

On view on Thursday, the day previous to the sale, when catalogues may be obtained at the place of sale, or at the Auctioneer's Offices, 5 Burton Street, Bath. Tel. 280.

BRETT & CO.

Transfer Agents and Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams: "Brett Leicester."

Telephone 1934.

F. J. BRETT, M.P.S.,

Gives personal attention to all valuations.

Valuations conducted upon the shortest notice at moderate fees.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—SOUTH COAST.—First-class Retail and Dispensing Business; in same hands many years; retiring; returns about £900; commanding position; plenty of scope in energetic hands; attractive Pharmacy; well stocked; price simply valuation; no goodwill.

2.—OXON (Death Vacancy).—Old-established good-class country Business in centre of large agricultural district; quite unopposed; returns £1,350; net profit £367; good house and garden; well stocked shop; price about £900.

3.—SURREY (Suburb).—Good-class Retail and Dispensing Business in good position; returns £1,800; net profit nearly £450; books well kept; very convenient house; price about £900.

4.—CITY (Death Vacancy).—High-class Dispensing and Retail in splendid position; returns average about £30 weekly under management; plenty of scope; price for quick sale simply valuation, about £650.

5.—SOUTH LONDON (Close to City).—Brisk Cash Business for disposal; returns nearly £40 a week; good profits; splendid corner position in busy main road; fully stocked; good modern premises; price £300, and stock at valuation.

6.—LONDON (Essex Suburb).—Very profitable cash Retail and Prescribing, with own specialties; returns £15 to £16 weekly, increasing; net profit over £300; low rent; fully stocked; price £475; part can remain; trial allowed.

7.—LONDON, S.W.—Good-class Retail and Dispensing Business; in fine position, close to busy station; returns £1,000; no panel; clear net profit over £300; books properly kept; scope for increase, owner retiring; price £450; part could remain; strongly recommended.

8.—LONDON SUBURB, S.E.—Well-established Cash Retail; very profitable, and scope for increase; returns £540 under Manager; net profit £250; price £300, about value of stock and fixtures.

STOCKTAKINGS.

We are now booking dates for November, and appointments should be made early to avoid dates clashing. Terms sent on application. 45 years' practical experience.

PREMISES REQUIRED.

DENTAL Rooms wanted; main road position of provincial town; or partnership in established ethical practice; would consider purchase of Chemist's business if ample accommodation and opening for Dentistry. Apply 91/3, Office of this Paper.

BUSINESSES WANTED.

UNQUALIFIED wants unopposed mixed cash Drug Stores or Herbal Business; working partnership in any genuine going concern (Wholesale or Retail) would be entertained; preferably if could act as outdoor Representative. Replies to 90/3, Office of this Paper.

WANTED, good sound Business, with scope for increase, for the beginning of the New Year; must bear investigation; East Lancs district preferable. Reply, giving full particulars, to "Aspirin" (90/25), Office of this Paper.

WANTED, small good-class Business; returns about £1,000; not London; on main line. Apply 95/12, Office of this Paper.

PRIZE COURT SALE.

PRIZE COURT SALE.

IN PRIZE.

By Order and for Account of the Marshal of the Admiralty. To be Sold by Public Tender, ex s.s. "Baron Stjernblad" (p. Darlington), 35 casks EDIBLE OLIVE OIL, lying Newcastle. The parcel is offered in 35 lots.

Any offer accepted by the Admiralty Marshal will be placed before the Ministry of Food for approval.

To be sold subject to Government restrictions as to export.

Tenders, in envelopes marked "Tender No. 12," and addressed to the Admiralty Marshal, Royal Courts of Justice, Strand, London W.C. 2, must be received not later than noon on FRIDAY, 22, NOVEMBER, 1918.

Samples may be seen and all further particulars obtained from the Selling Brokers, Arthur Brown & Co., 126 Bishopsgate, London E.C. 2.

AGENCIES.

SOUTH AFRICA.—Firm of Manufacturers' Agents, established over 20 years, with large and important connection throughout the Union, East and South West Africa, are open to represent first-class houses; principal now in London. Address "Onwards" c/o Jackson's, 19 Cullum Street, E.C. 3.

SOUTH AFRICA.—Chemist, with sound practical knowledge and experience of Drug and allied trades in South Africa, retiring shortly after war service, is open to take up agencies of good-class British firms; offices in Cape Town; open to travel in South Africa. Apply 83/38, Office of this Paper.

DUTCH firm, well introduced to all manufactures in Holland, ask the representation of technical and Chemical products for Holland; bank references. Letters to 95/10, Office of this Paper.

ENGLISHMAN, about to establish himself in Holland, with connection amongst Doctors and Chemists, wishes to represent a few enterprising British firms with a view to introducing the goods in Holland and Colonies; willing to keep stock; higher references. Apply, with full particulars, "Mercurius" (82/31) Office of this Paper.

MANUFACTURERS' Agencies wanted, buying or selling, by a gentleman who has a very large connection among Chemists, Hairdressers and Stores, and who already holds Agencies for well-known lines; Toilet Specialties preferred. Write Varda, Greenlands, Greenlands Road, Staines.

FOR SALE.

FOR Sale, 141 Shop Rounds, 10, 20, 30, 40, 60 oz. for powder and tinctures, stoppered; all labelled. Apply "Chemist" 56 Lamb's Conduit Street, W.C. 1.

OFFERS wanted for 3½ cwt. Powdered Citric Acid. Apply McBryde, Chemist, Whitely Bay.

OFFERS WANTED.—800 Wood Boxes (10 x 5 x 9), 200 Wood Boxes (19 x 14 x 8), 28 lb. Lamp Borax, about 80 lb. Pul Amyl, 2 lb. Potassium Bromide, 2 lb. or 3 lb. ca. Tinctur Calumba, Gent. Co., Lavand. Co., Zingib. Fort., Lupuli (Bugey's), 2 cwt. Bottling Wax. Address 60 Great Russell Street, Bradford.

OPTICAL Trial Case (morocco covered), 20 pairs Convex and Concave Sphericals, 11 pairs Convex and Concave Cylindrical 9 Prisms, 5 Discs, Geneva Lens Measurer, Trial Frame; offer Duck, Chemist, Cardiff.

PLATFORM Personal Weighing Machine, £3; Semi-Rota Pump, iron, ¾ bore, £5; Roberts' Bottle-filling Machine as new, £18; Oak Vats, open top, 100 gall., £4 5s. each, 30 ga. £3; 2 white glass, decanter shape, Show Carboys, 32s. ea. Avery 4 cwt. Platform Weighing Machine, £11; Rectangular Copper Storage Tank, with cock, adaptable for gas under, £8 10. Jackson, Pownall Square, Liverpool.

SURPLUS stock for disposal: 14 lb. Calomel, 14 lb. Hydrar Bichlor., ¼ oz. Atropine, pure, 1 lb. Resorcin, 1 lb. Croton Chloral, 56 lb. Arsenic. Best offers for immediate delivery Secretary, 50 Oxford Street, Southampton.

VERMIJELLI, about 4 cwt.; no reasonable offer refused. Timoth White Co., Ltd., Portsmouth.

100 OZ. Quinine Sulphate, B. W. & Co.; unopened; 6s. 9d. per oz. Cumberbirch, Alderley Edge.

PARTNERSHIPS.

GENTLEMAN, experienced in Chemists, requires small share or interest in a Proprietary Medicine or Packed Goods. Wholesale Druggist's business in London, as supervisor or of other capacity; established and bona-fide. All letters to 86/3 Office of this Paper.

PARTNER or Directorship wanted by gentleman in London Druggists' Sundries or Dressings House; 47; £1,200 £1,500 available. Replies to 220/12, Office of this Paper.

SITUATIONS OPEN.

RETAIL.

Bournemouth District.—Experienced lady Assistant for good-class Retail and Dispensing; short hours; qualification essential. Apply 90/13, Office of this Paper.

Birmingham Suburb.—Assistant wanted; outdoors; unqualified; Light Retail Dispensing, N.H.I. Apply, stating full particulars and salary required, to 90/17, Office of this Paper.

Birmingham (Near).—Qualified Chemist wanted; lady or gentleman; live in or out. Apply, giving full particulars and salary required, to 90/22, Office of this Paper.

Burnley.—Qualified Branch Manager wanted. Apply, stating age, experience, etc., to Hartleys, Chemists, 59 St. James' Street, Burnley.

Darlington.—Managing Assistant required; abstainer preferred; knowledge of Photography preferred, but not essential. Apply, stating full particulars, to Waters, Chemists, Darlington.

Derbyshire.—Wanted, qualified Manager; married preferred; discharged or indelible; capable of taking entire management, with assistance of principal, of old-established medium-class business, with N.H.I.; hours 8.30 to 7, Wednesday 1, Friday and Saturday 8, no Sunday or holiday duty; permanency if suitable. Apply, stating salary required and testimonials, to 93/18, Office of this Paper.

Folkestone.—Wanted, Dispensing Assistant; accustomed to good-class business. Apply, giving particulars of experience and salary required (outdoors), to Hall & King, West Cliff Pharmacy, Folkestone.

Folkestone.—Qualified Assistant wanted (outdoors) for high-class Retail and Dispensing business; short hours; comfortable permanency. Apply, stating full particulars and references, to, F. G. Curtis & Sons, 94 Sandgate Road, Folkestone.

Gloucester.—Unqualified Assistant; lady or gentleman; if latter, a discharged man (young); two kept; outdoors; good-class Dispensing and Light Retail; easy hours. State full particulars, with salary, to Ward & Woodman, Gloucester.

Hastings.—Discharged soldier, sailor, or ineligible, with first-class Dispensing and Retail experience, required in Dispensing and Retail business. Kindly state references, salary required, and enclose photograph (vacancy now open), Neve & Co., Proprietor Harold E. Skyrme, 12 Wellington Place, Hastings.

Leeds.—Qualified lady Assistant for Dispensing and Retail department. State age, experience, salary required, and when disengaged, Reynolds & Branson, Ltd., Leeds.

Leicester.—Good opening for a capable unqualified Assistant; knowledge of Photographic trade an advantage; comfortable and permanent berth. "Leicester" (88/381), Office of this Paper.

Leicester.—Assistant wanted. Give full particulars as to experience, salary required, references, etc., to F. W. Goodess, F.P.S., Uppingham Road, Leicester.

Liverpool.—Wanted, capable Assistant, male, ineligible, for a brisk city business. Apply, stating age, height, salary, and references, John Bain, 4 Quadrant, Lime Street, Liverpool.

Liverpool.—An experienced qualified lady Assistant for high-class Dispensing; one with Counter experience preferred; three others on staff; permanency; usual particulars. Apply H. Cole, The Pharmacy, Blundellsands.

Liverpool.—Assistant (unqualified): brisk Counter trade; fair N.H.I.; war bonus in common with rest of staff, according to profits. State age, grade, and salary; with full particulars, to 91/39, Office of this Paper.

Liverpool.—Elderly qualified Assistant wanted (at once); permanency; comfortable post; no Sunday duty; half-holiday weekly. State salary, etc., at first application to save correspondence. Apply 91/16, Office of this Paper.

London.—John Bell & Croyden, Ltd., require an experienced Assistant; short hours. Apply in first instance, by letter, to John D. Marshall, 50 Wignmore Street, W.

London, E.—Unqualified Assistant required for a progressive business; good opening for a capable man, discharged from Army or Grade 3; permanency. "B. R." (88/383), Office of this Paper.

London, N.—Lady Assistant required for Dispensing and Counter; outdoors; comfortable berth; one with shop experience preferred, but not essential. Apply, stating experience, age, height, and salary required, to Dow Brothers, 44 Seven Sisters Road, Holloway, N. 7.

London, N.W.—Wanted (at once), a capable Assistant; accustomed to high-class Retail and Dispensing business (gentleman ineligible or lady). Apply, with full particulars and salary required, or personal interview, to W. J. Dalby, Chemist, 6 Canfield Gardens, N.W. 6.

London, N.W.—Assistant (outdoors) for good-class Retail and Dispensing; part-time may be entertained. State salary expected and usual particulars, 90/39, Office of this Paper.

London, N.W.—Wanted (at once), a qualified Assistant as Manager; one accustomed to high-class Retail and Dispensing business, with a view to succession on easy terms; a good opportunity for a capable man. Apply, with full particulars, experience, and salary required, 89/10, Office of this Paper.

London, N.W.—Full or part time Assistant required for good-class Retail and Dispensing. Apply Chas. Stevens, 38 Heath Street, Hampstead.

London, S.W.—Required (at once), a lady Assistant who has had good experience. Apply to A. J. Phillips, 156 Cromwell Road, South Kensington, S.W. 7.

London, S.W.—Assistant, with good knowledge of Dispensing, qualified or unqualified, in first-class Retail and Dispensing business, required as early as possible. Apply, with full particulars or personally, to Alsop & Quiller, 137 Sloane Street, S.W. 1.

London, S.W.—Assistant wanted as soon as possible; Dispensing and Counter; short hours if desired. Also Dispenser for mornings, 10-1. Apply Foster & Dallas, Chemists, 1 Lavender Hill, S.W.

London, S.W.—Assistant required (at once) for general Retail and Dispensing; outdoors; no Sunday duty; close 1 o'clock Wednesdays; good references essential. Apply 91/35, Office of this Paper.

London, W.—Young lady Assistant for Light Retail and Dispensing business; must be a good Dispenser; permanency. "Berwick" (88/384), Office of this Paper.

London, W.—Wanted, capable Salesman, also Sales lady, in first-class West-End Perfumers. Please state experience, when disengaged, and salary required. Apply 218/5, Office of this Paper.

London, W.—In first-class Dispensing business; thoroughly competent Assistant, ineligible or discharged, or lady with good practical Pharmacy experience. Apply by letter, stating age and salary (outdoors) required, to 90/34, Office of this Paper.

London, W.—Assistant, with first-class Dispensing experience; outdoors. State salary and all particulars to John Atkins, Chemist, Queen's Road, Bayswater, W. 2.

London, W.—Assistant wanted; outdoors; good Dispensing experience essential. Apply with full particulars, stating salary required, to Gould & Co., 23 North Audley Street.

London, W. 1.—Wanted (immediately), an experienced Assistant; progressive salary to a suitable man. Apply J. Munro & Co., 273 Regent Street.

London, W.—Lady Dispenser, with some experience preferred, wanted (at once) for good-class Dispensing business. Apply, with full particulars, to H. A. Irwin, 2 Station Parade, Ealing Common, W.

London, W.—Unqualified Counter Assistant; hours 9-6.30, 1 o'clock Saturdays. Apply S. F. Goss, Ltd., 460 Oxford Street.

Manchester District.—Assistant Dispenser; N.H.I.; unqualified; hours 9-8 p.m. prompt, half-day, an occasional Sunday, 1½ hours; fair salary according to abilities; one who knows his work and does it would not be worried. Apply 89/37, Office of this Paper.

Midlands.—Unqualified Assistant required for progressive Light Retail and Dispensing business; permanency. State when at liberty and salary required, "W." (88/382), Office of this Paper.

Oxford.—Wanted, a qualified Manager for branch business; lady or gentleman. Apply, with usual particulars, salary required, etc., to J. Burbank, 116 Walton Street, Oxford.

Preston, Lancs.—Unqualified Assistant required for a quick Cash Retail business; good knowledge of Photographic trade an advantage; comfortable and permanent berth. "Preston 2" (88/386), Office of this Paper.

South Wales.—Qualified Manager required for progressive branch, within 17 miles of Cardiff; man speaking Welsh preferred; liberal interest in the profits offered to any man who is prepared to put his whole energy into the business. "S. W." (88/380), Office of this Paper.

South Wales.—Wanted (immediately), qualified Manager for Branch at Bedwas, 10 miles from Newport, 8 from Cardiff; good salary and commission to an enterprising man; splendid prospects; short hours; no Sunday duty. Apply, giving full particulars first letter, to Francis, Chemist, New Tredegar.

Tunbridge Wells.—Wanted, young lady Dispenser; no Sunday duty; comfortable berth; easy hours. Apply, with full particulars, salary required, Pearmund, Chemist, Culverley Road.

West of England.—high-class Dispensing, invite inquiries from experienced Assistant or Improver; either sex. Apply 90/36, Office of this Paper.

Wolverhampton.—Unqualified Assistant for a good-class Retail and Dispensing business in centre of the town; easy hours; no Sunday or night duty. Applicants should send full particulars of experience, stating age and salary required, to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

Yorks, West Riding.—Elderly qualified Chemist required; hours easy; work light; single man or widower preferred. "W. R." (88/385), Office of this Paper.

A LADY required for Dispensing and assisting at putting up stock; indoors; a lady Apprentice kept. R. B. Betty, 1 Park Street, Gloucester Gate, Regent's Park, N.W. 1.

A MANAGER (qualified) for old-established business in East-End of London; house rent, rates, and light free; liberal salary and commission. Apply 217/55, Office of this Paper.

ASSISTANT (lady or gentleman); accustomed to good-class Retail and Dispensing business; must be energetic and trustworthy; no N.H.I. work. References and salary required (outdoors) to Lacey, Chemist, Abingdon.

ASSISTANT; lady with knowledge of an ordinary good-class Pharmacy and Dispensing; hours moderate; must be quick and energetic worker; three employed. Send particulars of experience, reference, if disengaged, and salary required, to J. W. Feltwell, 91 Hammersmith Road, West Kensington.

ASSISTANT for Mixed Retail; 35-40; must be ineligible for Army, and accustomed to making B.P. preparations; be willing to undertake warehouse or any work; good Counterman and Dispenser; wages offered £130. Apply, with full particulars and copies of references, to "Beta" (72/24), Office of this Paper.

ASSISTANT (unqualified) for Drug Store; easy hours; good salary; best references only accepted; application from late Army compounder entertained. Apply 9 Wickham Lane, Plumstead, S.E. 18.

ASSISTANT, gentleman or lady, for Light Retail and Dispensing business; hours 9 to 7, Wednesdays 1, Saturdays 8, no Sunday duty. State age, experience, references, and salary. Thompson, Pharmaceutical Chemist, 51 The Grove, Ealing, W. 5.

ASSISTANT (outdoors) wanted; lady or gentleman; hours 9 till 7, Wednesday close 1 o'clock, Saturday 8 o'clock, no Sunday duty. Particulars to Bishop, Chemist, Thames Ditton.

ASSISTANT wanted; discharged soldier preferred; comfortable berth and good prospects; qualified or unqualified. Please state salary required, West, Pharmacist, Dartford.

ASSISTANT required for the Dispensing department; lady or gentleman; competent and reliable. State experience, age, references, and salary required, Duck & Son, Chemists, Cardiff.

ASSISTANT or Improver wanted; lady or gentleman; comfortable berth; with or without Dispensing. Usual particulars or personally to Dea 1, 320 Roman Road, Bow.

ASSISTANT wanted; lady or gentleman; outdoors; accustomed to a good-class Pharmacy. Also young lady to assist at the Counter; Stock and able to dress Windows. Apply Quibell, The Station Pharmacy, Golders Green, N.W. 4.

ASSISTANT, with Dispensing experience; outdoors; either sex. Apply personally if possible to J. E. Evans, Pharmacist, 69 Leytonstone Road, E. 15.

ASSISTANT; unqualified; discharged or ineligible. State terms, etc. (outdoors), Hugh Cox, Wealdstone, Harrow.

ASSISTANT lady wanted, chiefly for Dispensing, in a good-class Pharmacy, with good practical knowledge; one other lady Assistant kept. Apply, stating full particulars of salary, age, etc., to E. L. Slade, 3 Station Parade, Kew Gardens.

ASSISTANT required for good-class business; excellent prospects and permanency for capable man. Apply, stating salary and when disengaged, to Oliver, Chemist, Maidstone.

ASSISTANT wanted for good-class Retail and Dispensing business; lady or gentleman (outdoors). Also part-time Assistant wanted. Apply, giving usual particulars as to experience, salary required, etc., D. T. Davies, 567 Finchley Road, Hampstead, London, N.W.

ASSISTANT (male or female) for Counter in good-class business. Hickman & Metcalf, Newbury.

BODY'S Pharmacies, of Southend and Westcliff, offer position with excellent prospects to good Dispenser and Counterman; young; discharged or ineligible man preferred; qualified or unqualified. State salary required, in- or out-doors, and enclose recent photo.

CAPABLE Dispenser; lady. Apply, with particulars of experience, etc., to C. A. Maries, Pharmacist, Waterloo, Liverpool.

COCKS & DUNSFORD, Pharmacists, Torquay, require an Assistant (lady or gentleman), latter ineligible, for good-class Dispensing business and Retail.

DISPENSER wanted (woman); qualified; general practice. Apply W. Tonkin, 740 Fulham Road, S.W. 6.

DISPENSER wanted; ineligible; thorough knowledge of Dispensing and Retail trade; good salary; very occasional Sunday duty. Apply personally, Wm. Fox & Sons, Ltd., 109-113 Bethnal Green Road, E. 2.

DISPENSER wanted (at once); must be good Salesman and have knowledge of Photography; commencing salary £182 per annum and commission. Apply "Progress" (90/18), Office of this Paper.

DOCTOR'S Dispenser and Bookkeeper; female preferred. Full particulars to 40 Hamilton Street, Hoole, Chester.

EVANS & LEWIS, Chemists, Newport, Mon., require a smart Junior Assistant; must be a quick and accurate Dispenser; one with a knowledge of Photography preferred.

EXPERIENCED Assistant to outdoor Dispenser; short hours. Apply E. C. Evans, Pharmacy, Whiteleys, 39 Westbourne Grove, W. 2.

EXPERIENCED Dispenser required for first-class Pharmacy; application from a lady entertained. State full particulars, experience, and references and salary required, Topholme & Son, 1 Coleherne Terrace, Earl's Court, S.W. 5.

HOSPITAL FOR CONSUMPTION, BROMPTON, S.W. 3.—Wanted (at once), Dispensary Assistant; Minor qualification essential; salary £150 per annum, with lunch provided. Applications, stating age, experience (Hospital or otherwise), accompanied by two recent testimonials, to be addressed to the Secretary.

IMMEDIATELY, capable unqualified Assistant; male; discharged soldier would have comfortable berth. State experience and salary required, in first letter, to Powell, 125 Upwell Street, Sheffield.

JUNIOR Assistant wanted (immediately), lady or gentleman, outdoors, for high-class Dispensing business; good hours. Apply, giving full particulars, F. Andrews, 34 Leinster Terrace, Lancaster Gate, W. 2.

JUNIOR Assistant wanted, lady or gentleman, for good-class Dispensing and quick Counter; moderate hours and no Sunday duty. State experience and salary required (outdoors), R. H. Tootill, Pharmaceutical Chemist, Altricham.

LADY Dispensers wanted, with knowledge of Counter work; good salary and commission. Apply Parke's Drug Stores, Ltd., 65 Harwood Street, N.W. 1.

LADY (qualified preferred) wanted to manage a particularly high-class branch Pharmacy where select and highest class Toilet, Proprietary, and Fancy Goods constitute chief trade; small amount Dispensing; assistance provided; charming inland watering town; good salary and commission to right lady, who must be good Saleswoman and Window-dresser; exceptional opportunity. Apply, with full particulars and enclose photo, to 90/38, Office of this Paper.

LOCUM wanted (immediately) for a few weeks, qualified or unqualified, to assist in management; permanency arranged if mutually satisfactory. A. S. Price & Co., Ltd., Blackheath, Birmingham.

LOCUM required immediately; reliable references. Apply "M.", 193 The Broadway, West Hendon, N.W. 9.

MANAGER wanted for Barry. Also Assistant; Cardiff. State full particulars, age, salary required, experience, date disengaged, enclose photo if possible, W. T. Hicks & Co., 28 Duke Street, Cardiff.

MANAGER required as soon as possible for good-class business in small town in Surrey; live over premises. Apply, with full particulars as to age, references, experience, and salary required, to C. T. Neathercoat, Pharmaceutical Chemist, Weybridge, Surrey.

PART-TIME Assistant required (mornings) to assist at Stock and Counter. Marshall & Co., 5 Piccadilly Road, S.W. 1.

POST vacant for a qualified Chemist in high-class Dispensing business near Birmingham. Apply 90/15, Office of this Paper.

QUALIFIED; single; good opening for capable man; discharged or rejected; permanency, with excellent prospects. "H. L." (88/38), Office of this Paper.

QUALIFIED Manager required for good-class store business, where there is some Insurance Dispensing; easy hours, no Sunday or night duty; applicants must have neat and accurate habits, and possess energy; preference given to young Pharmacist who has served first-class apprenticeship. Full particulars of experience, stating age and salary required, should be sent to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

QUALIFIED Manager or lady for a branch in North Wales; live out. State wages and all particulars by first letter, "Flor" (88/30), Office of this Paper.

QUALIFIED Assistant, lady or gentleman (if latter ineligible), for Dispensing Counter. Apply, giving full particulars of previous experience, to Roberts & Co., 76 New Bond Street, W. 1.

QUALIFIED Branch Manager wanted (at once); energetic and enterprising, with knowledge of Photography; commencing salary £250 per annum and commission. Apply 90/180, Office of this Paper.

QUALIFIED Assistant (at once); outdoors; salary £5 per week; accustomed to Dispensing; no N.H.I. Apply Blanchford, Chemist, 76 High Street, Wimbledon, S.W. 19. Phone 543.

QUALIFIED Assistant wanted (at once); also part-time Assistant. Please give full particulars of experience, salary, etc., to Frank A. Rogers, 327 Oxford Street, W.

QUALIFIED Manager or Manageress (immediately); first-class Retail and Dispensing business; references must be good-class; good salary offered. Also part-time unqualified lady or gentleman. Apply 71 East Hill, S.W. 18.

STEELE & MARSH, Dispensing Chemists, 6 Milsom Street, Bath, require (immediately) a competent Assistant (qualified or unqualified), of gentlemanly address, for their Dispensing Counter; good experience essential. Apply, with copies of testimonials, stating salary required and when disengaged, to the proprietor, David A. Evans.

SUCCESSION ON EASY TERMS.—Wanted, qualified Manager with Dental experience, for branch in South Wales, with view to succession (if desired) on easy terms; pleasant healthy mining district; good well-established business; handsomely fitted shop; unlimited scope for Dentistry; good salary and commission. Apply 88/17, Office of this Paper.

UNQUALIFIED, for London, S.W., wanted; smart man used to Window-dressing, and good Salesman; £3 per week and commission. State full particulars when disengaged, height, age, experience, all treated in confidence. Also Assistant, same qualifications, for South Coast. Apply Chemist, Lancaster Hotel, Grand Parade, Brighton.

UNQUALIFIED Assistant wanted (immediately) for good-class country Retail; outdoors; discharged soldier preferred, but an elderly man not objected to. Apply, stating age, references, salary required, and earliest date for commencing, to J. H. Hull, Pharmacist, Tadcaster, Yorks.

UNQUALIFIED Locum for week-ends or part-time man, for afternoons and Friday and Saturday evenings. Apply Oliver & Co., Ltd., 487 High Road, Tottenham.

UNQUALIFIED or young qualified (ineligible) for good general business; easy hours. State wages required, etc. Fuller particulars on application, Smith, Chemist, Durham.

UNQUALIFIED Assistant, either sex, for Drug Store; suit elderly gentleman or discharged soldier wanting a comfortable berth; easy hours. State salary, references, Heppenstall, Rexall Pharmacy, Boothferry Road, Goole.

WANTED, qualified lady Dispenser (outdoors). Apply, stating previous experience, Cross & Son, Pharmaceutical Chemists, 70 Mardol, Shrewsbury.

WANTED (immediately), qualified Manager; three shops; good salary, with commission and house; permanency; excellent opportunity for able business man. State references and experience. Apply Secretary, Lewis Wing, Ltd., Weston-super-Mare.

WANTED (immediately), fully-qualified male or female Dispenser; good wages; live out; permanency. Apply Manager, Junior Army and Navy Stores, Ltd., Union Street, Aldershot.

WANTED, a qualified lady and gentleman for high-class Dispensing and Retail Pharmacy in Yorkshire; outdoors. State experience and salary required, 91/21, Office of this Paper.

WANTED, capable Assistant; accustomed to good-class Retail and Dispensing. Kindly state details of experience, age, height, and salary required (outdoors), to Evans, Chemist, Margate.

WANTED, energetic qualified Chemist for old-established business in Bristol; ineligible or discharged; to a suitable gentleman good prospects offered. Apply by letter, stating age, reference, and salary required, to 35 Redland Grove, Bristol.

WANTED (at once), Assistant; qualified or unqualified; male or female. Apply, stating salary required (applications not answered in three days declined), Mr. Evans, 17 York Place, Brighton.

WANTED, lady Clerk-Dispenser (whole time) for the Lewisham Borough Council Child Welfare Centre; salary £100 per annum. For forms of application apply to the Medical Officer of Health, Town Hall, Catford, London, S.E. 6.

WANTED, a capable Assistant, chiefly for Dispensing, in good-class Dispensing business. Apply, with full particulars, to A. Lloyd Davies, Chemist, Woking.

WANTED, a young lady to assist in Dispensing and Pharmacy; certificated or not; no Counter work. W. Parry-Jones, Chemist, Barnet.

WANTED, Manager; branch; easy hours; nice locality. State salary, Staniforth Pharmacy, Sheffield.

WANTED, qualified Assistant; Retail and Dispensing business; good references essential. State full particulars, salary, etc., 91/40, Office of this Paper.

WANTED, a competent and reliable Assistant as Manager, married, discharged or ineligible, to live over premises; good house and liberal salary; as early as possible. T. E. Savage, 30 Broadway, Crouch End, N. 8.

WELL-EDUCATED young lady wanted (at once), outdoors, for Counter and Stock; previous experience essential. State salary required, age, and give references in first letter to A. Middleton & Son, Pharmacists, Lister Gate, Nottingham.

£4 PER WEEK offered for smart unqualified Assistant (outdoors); must be quick and accurate Dispenser; no N.H.I.; vacancy in high-class Retail in Kensington; permanent position. State details of experience and recent references to "Rex" (88/11), Office of this Paper.

ASSISTANT, qualified or unqualified, and Packer wanted at once; good salaries; either sex. Apply Brodribb, 344 Mare Street, Hackney, N.E.

WHOLESALE.

A FIRM of Wholesale Druggists, with large manufacturing facilities, but at present doing almost entirely home trade, are desirous of negotiating with a gentleman of experience who can introduce export business. Apply 88/32, Office of this Paper.

A FIRM of Veterinary Chemists have a vacancy for a qualified Chemist in their Manufacturing department. State age, experience, and salary required; preference given to a disabled or discharged soldier. Apply "D. S.," c/o Gordon & Gotch, Ltd., 15 St. Bride Street, E.C. 4.

ASSISTANT wanted for Surgical Instrument business, with view to travelling; a good opening for a young Chemist's Assistant, or one with knowledge of Surgical sundries. Apply, with full particulars as to age, experience, and salary expected, to 86/13, Office of this Paper.

BAISS BROTHERS & CO., LTD. require Laboratory Assistant for manufacture of Galenicals. 175 Grange Road, Bermondsey, S.E. 1.

BUSINESS man, with opportunities, is open to represent Wholesale manufacturing house; resident W.C. district; could carry small stock; first-hand knowledge of Doctors' and Pharmacists' requirements. "Business" (89/26), Office of this Paper.

COMPETENT Nurse to take charge of manufacturing Galenical and own Proprietary (on small scale), controlling and distributing stock to branches, etc. Cofman, Wholesale, 6 Bloomsbury Street, W.C.

DRY Counter Hand, experienced, wanted by a London house; wage £2 7s. 6d. Apply, stating full particulars, to 220/14, Office of this Paper.

EXPERIENCED Counterman wanted for Wets department; Wholesale; Edinburgh. Apply, stating age, experience, and wages required, to 89/7, Office of this Paper.

LABORATORY hand required; one used to manufacture Galenicals; good prospects. State full experience and wages required, 217/22, Office of this Paper.

LEDGER and Invoice Clerk required by Loudon Wholesale Druggists. Apply, stating experience and wages required, 93/15, Office of this Paper.

MANAGER, qualified, ineligible, wanted in Laboratory of old-established London Drug house. Also qualified Manager for Dispatch Counter. Apply, with details, to "X. Y. Z." (202/17), Office of this Paper.

MANAGER required for Shellac, Bleaching, and Spirit Varnish Factory; slight knowledge of Chemistry preferred. Apply by letter, stating experience and salary required, to "Son," 16 Mark Lane, E.C. 3.

MANUFACTURING DEPARTMENT.—Unqualified Assistant to prepare Pharmacopoeial preparations and Proprietarys, and to take charge of machinery for dry mixing, crushing and grinding Drugs, and the milling of Ointments, etc. Applicants, who must be ineligible for military service, should send full particulars of experience, stating age and salary required, to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

PACKER; accustomed to export work. Apply by letter, stating experience, wage required, to J. F. Macfarlan & Co., 9 and 11 Moor Lane.

R. J. REUTER, 69 Carter Lane, E.C. 4, dealer in and manufacturer of Chemists' Sundries, Toilet and Manicure Requisites, etc., require intelligent young man, with knowledge of Chemists' requirements, for their order pricing department; must be able to read orders, supervise despatch, and be a quick and accurate checker; good opening for man anxious to improve himself; lady with requisite experience would be entertained. Apply by letter, stating age, experience, etc., and salary required.

REPRESENTATIVE wanted (part-time) for South and East Coast, to work Chemists in Surgical Sundries; commission only 10 per cent. Apply 219/34, Office of this Paper.

SAVORY & MOORE, LTD., require a man or woman with a knowledge of Drugs and Pharmaceutical preparations, and accustomed to putting them up for sale in wholesale quantities. Apply Wholesale Manager, 143 New Bond Street, W. 1.

SMART Travellers required on good commission basis (£10-£20 weekly), to introduce a first-class repeater (Sugar Substitute); only those need apply who can sell on pro forma terms. Give full particulars and references, in strict confidence, to 29/9, Office of this Paper.

TABLET Maker or Granulator wanted; Liverpool; permanent post; good salary. Apply 137/18, Office of this Paper.

TABLET Works Manager required, with a thorough and complete knowledge of the trade; applicant must be a man of ideas, an expert in coated goods, and able to work to his own formulas; to the right man a good salary will be paid, and the position is a permanent and progressive one; replies will be treated in strictest confidence. Apply 89/24, Office of this Paper.

WANTED, experienced Tablet Machinist. Apply W. B. Cartwright, Ltd., Tablet Makers, Rawdon, near Leeds.

WANTED, an Assistant for Dry Counter in Edinburgh Wholesale house; one with some experience preferred; must be ineligible or discharged. Apply 218/14, Office of this Paper.

WANTED, Traveller with good connection, to sell on commission a first-class Toilet Cream. Apply, quoting particulars, also three good trade references, to W. J. Kearney, Chemist, Hawick, Rox.

WANTED, immediate help; Wholesale (packing and stock) or Retail (Dispensing and Counter). Apply Secretary, 50 Oxford Street, Southampton.

WANTED, a smart youth (with knowledge of making B.P. preparations, etc.) for Shipping. Chemists; one willing to learn shipping department; no special knowledge necessary; good prospects. Apply, giving full particulars and salary required, with photo in first instance, to 90/20, Office of this Paper.

YOUNG woman for fine Chemical Counter; must have had experience in packing similar goods. Apply by letter, stating experience, wage required, to J. F. Macfarlan & Co., 9 and 11 Moor Lane.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

INDIA.—Travelling Representative required for Perfumery and Toilet Soaps; must be thoroughly experienced in Indian travelling. Apply by letter only in strict confidence, giving full particulars of present and previous representations, to J. and E. Atkinson, Ltd., 1 Southwark Park Road, London, S.E. 16.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

[HOME.]

RETAIL.

A. H. COOPER, M.P.S., 5 The Vineyards, Bath, open for temporary engagements.

A S Locum or Manager for winter months; qualified; abstainer; over military age. Apply 89/1, Office of this Paper.

A S Manager or any other post in light business, with easy hours; wide experience in every department; good reference; elderly Pharmacist. "M.P.S." (88/39), Office of this Paper.

A SSISTANT, 20, totally rejected, good all-round experience, desires situation in N.E. or E.C. London; Counter and Dispensing. Apply "Grindelia" (88/34), Office of this Paper.

A SSISTANT, unregistered, Scotsman, 56, married, good all-round experience, active, reliable, trustworthy and obliging, desires change; Brighton or South Coast preferred. Kindly state salary and hours, 89/25, Office of this Paper.

C HANGE desired; long and varied experience; active, able, and industrious; best possible references: 43; outdoors; unqualified. Write "Dispenser," c/o Haggas, 48 Laburnum Grove, Portsmouth.

D ISCHARGED soldier; 21; five years' good experience; excellent references; abstainer; disengaged. Evans, 158 City Road, Cardiff.

D ISPENSER, lady (Hall qualifications), desires post: Deal or district preferred. Write "Burleigh," 68 Beulah Hill, Norwood, S.E. 19.

D ISPENSER; qualified woman; experienced; disengaged November 12th; care of Instruments, Books, etc. Apply 83/36, Office of this Paper.

D ISPENSER (part Hall) and well qualified Nurse desires post; state salary. Apply 86/23, Office of this Paper.

D ISPENSER, etc. (experienced), disengaged shortly. "W.," 28 Park Grove, West Ham, E. 15.

D ISPENSER, age 45, seeks re-engagement; 25 years' last situation with medical practitioner; excellent references. Hammond, 29a Tetot Road, Chelsea.

D ISPENSER (Doctors preferred); ineligible; unqualified; good experience. State salary and hours, etc., "B.," 10 Park Terrace, Cross Lane, Gravesend.

D ISPENSER wants Sunday, Tuesday afternoon, and Saturday evening, 8-9 work; 18 years' experience with Doctors and Chemists; *qualified in America*. Apply 89/13, Office of this Paper.

D ISPENSER, woman, Hall, Hospital experience, desires post; Doctor, Institution, or Chemist (Dispensing only); Bath or Bristol preferred. Apply 90/40, Office of this Paper.

D ISPENSER (lady), well trained, desires post (at once) with Doctor or Chemist; spare time for study. Apply 91/6, Office of this Paper.

D ISPENSER, lady, Hall, experienced, desires post; Dispensing only if Chemist. Apply 91/25, Office of this Paper.

E LDERLY, active, useful, trustworthy; successful branch Manager; three years' reference last employer; unqualified; salary secondary acceptable situation. Jordon, 85 Tonbridge Street, Leeds.

E VERNING Dispensing required by lady; Notting Hill or easy reach; Pharmacy experience; well recommended; Hall certificate. Apply 92/3, Office of this Paper.

E XPERIENCED Dispenser-Bookkeeper disengaged; daughter of medical man; last post 3½ years; indoors preferred; could furnish rooms. "A. W.," 21 Albany Road, Sittingbourne.

F IRM of Doctors near London require temporary assistance with clerical work, prescriptions, etc. Apply 90/11, Office of this Paper.

L ADY Dispenser (Hall) requires post with Doctor or Hospital; two years' experience with Doctor; near Nottingham if possible. F. B., 41 Mona Road, West Bridgford, Nottingham.

L ADY Dispenser, Hall qualifications, desires post; part or full time; London, or easy distance of Caterham. Apply Miss H. Truby, Brynhelig, Caterham.

L ADY (Hall qualification) requires post; Dispensing; Brixton or easy distance. Miss Wood, 23 Rumsey Road, Stockwell, S.W. 9.

L ADY Dispenser (Hall) desires post with Doctor: S.W. district. Johnston, 4 Warwick Mansions, Lower Richmond Road.

L ADY Dispenser-Bookkeeper desires post with Doctor or Chemist; Hall certificate; experience. Jenkin, St. Feock, Cornwall.

L ADY Dispenser (Hall), experienced, seeks post; 5 years' London reference. Please state hours. 91/15, Office of this Paper.

L OCUM; qualified; 46; abstainer; excellent references; at liberty. "B.," 71 Sunbury Road, Liverpool.

L OCUM; qualified; first-class Counterman. Dispenser; disengaged. "Cito," 4 Blenheim Road, St. John's Wood, N.W. 8.

L OCUM Teucens; disengaged November 11th; experienced. "L. T.," 1 Eton Road, Newport, Mon.

L OCUM Teucens Manager; qualified; 50; town or country; disengaged. "W. B. B." (89/27), Office of this Paper.

L OCUM; Chemist or Institution work; all-round experience; qualified; exempted; abstainer. "London" (90/31), Office of this Paper.

L OCUM or Manager; highest references. Apply 74 West Hill, East Putney.

M ANAGER, qualified, disengaged; permanency; over 20 years' experience as Manager; 54. State salary, etc., D. O. C., 26 Fox Hill, Upper Norwood, S.E. 19.

M ANAGEMENT Drug Store or other position of trust; thoroughly capable; highest references; London or near; unqualified. Apply "E." (91/10), Office of this Paper.

M ORNING and afternoon Dispensing wanted by experienced lady; 31; Hall qualification; Reading Minor; lives North London. Apply 91/4, Office of this Paper.

N OTTINGHAM (or near); unqualified; over military age; 43 10s. weekly; seven years' present berth. Apply 91/22, Office of this Paper.

OXFORD.—Young Chemist's Assistant (ineligible) seeks position as Dispenser in high-class Pharmacy; outdoors; easy hours. State terms, etc., 86/14, Office of this Paper.

P ART-TIME WORK.—Doctor's daughter (experienced), Hall qualification, seeks post as Dispenser near Ealing, or locum. Apply 88/27, Office of this Paper.

P ART-TIME, chiefly Dispensing; N.H.I. and others; evenings and all Friday and Saturday; Counter experience; Hall certificate; 43; Grade III.; moderate salary. "K.," 303 Southwark Park Road, S.E. 16.

PART-TIME; evenings, Saturday afternoon, Sunday; good experience Dispensing, etc.; young, smart; London. "E. T." (90/32), Office of this Paper.

PART-TIME Dispenser, etc. (no Counter work); London; elderly, active, unqualified, experienced; Chemist, Doctor, or Institution; expert Dental Extractor and Mechanic. State hours required, liberal remuneration, 93/11, Office of this Paper.

PHARMACEUTICAL Chemist, 25, discharged soldier, requires situation in high-class Retail and Dispensing business; South Coast or provincial town; good references; light hours essential. Apply 89/4, Office of this Paper.

PHARMACIST, 30, desires post as Manager or Senior, with view to succession. Apply 93/17, Office of this Paper.

QUALIFIED Chemist desires situation as Dispenser, Assistant, or Manager; over military age; town or country; temporary or permanent; disengaged 20th. Smith, c/o Stacey, 81 High Street, Teddington.

RETIRED Officer, invalided, but not incapacitated, unqualified, married, desires post in the New Year; small town in or near coast, with living accommodation preferred; energetic, reliable; good references; permanency; specialities, Dispensing, books, Photography, Window-dressing. "Chemist," 13 Manor Avenue, Rosebery Street, Birmingham.

TEMPORARY Managership; disengaged Saturday; age 51; 6 ft.; locum; Major. 109 High Street, Cheltenham.

UNQUALIFIED, 24, Grade III., all-round good-class experience, desires change. State full particulars, salary, hours, etc., Northern Counties preferred, 91/26, Office of this Paper.

YOUNG lady for Retail Counter; quick, accurate, no Dispensing; S.W. London preferred, K. C., 761 Garratt Lane, S.W. 17.

30 YEARS' experience; qualified; disengaged in December. Chemist, 5 Rutland Street, Colne, Lancs.

WHOLESALE.

CHEMICAL man; wide knowledge home and foreign trade; exceptional facilities for securing business abroad; splendid prospects; open for after-war engagement. Apply 61/330, Office of this Paper.

REPRESENTATIVE; Drugs; age 51; 6 ft.; "Robson Major." Lloyd King, High Street, Cheltenham.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

EXPERIENCED ineligible Manager seeks position abroad; Wholesale or Retail; full knowledge South American trading. Apply 88/18, Office of this Paper.

MISCELLANEOUS.

SACCHARIN Tablets, 40 lb., $\frac{1}{2}$ gr., 330 in 1 guaranteed, over 7,000 to pound, 1 lb. £7, 2 lb. £6 19s. per lb., 5 lb. £6 18s. per lb.; no better tablet obtainable; cash with order; immediate registered delivery. A. Walton, 40 Washington Street, Bradford.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SHOWCASES AND SHOP FITTINGS.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop Fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

EXCHANGE COLUMN.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6d.

FOR DISPOSAL.

DENTAL.

TWO only, Celluloid Full Uppers, three Bridges, Showpieces. R. Lamb, 123 West End Lane, London.

DRUGS AND CHEMICALS.

QUININE, Howard's, in 4 oz. bottles, for disposal; offers wanted. $1\frac{1}{2}$ LB. Pot. Iodid.; all at 25s. 6d. Apply 90/5, Office of this Paper.

TWELVE pounds pure Beeswax, beautiful bright colour, 2s. 6d. per lb., carriage forward. Brampton, Sudbury, Suffolk.

PODOPH. Resin., 26s. lb.; Ol. Croton., $\frac{1}{2}$ lb., 6s.; Guaiacal Carb., 6s. 6d. oz.; Acid. Citric. Crystals, 7 lb., 29s.; Sodii Salicyl., 7 lb., 48s.; Acid. Salicyl., 4 lb., 23s.; Pdrd. Gelatine, 3 lb., 12s.; Saffron, finest, 7 oz., 20s.; Otto Ros. Virgin., $\frac{1}{2}$ oz., 33s. Wanted, Pastilles and Tablets. Forryan, 40 Duncan Road, Leicester.

8 OZ. each Guaiacal Carb., 6s. 6d.; Resorcin, 3s.; Salol, 9d.; Caffeine, 3s. 6d.; Cit., 2s. 6d.; Santonin, 12s. 6d.; Salicine, 2s. 9d.; Quin. Bisulph., 6s.; HCl, 6s. 9d.; Ferri Quin. Cit., 1s. 9d.; Phenazone, 3s. 6d.; Phenacetin, 1s. 4d.; Thymol, 3s.; Bism. Sal., 1s. 3d.; 3 lb. each Potass. Iodid., 14s. 6d.; Bism. Carb., 16s.; Subnit., 14s. 9d.; Sodii Salicyl., 7s.; Bromid., 6s. 6d.; Potass. Bromid., 9s.; Permang., 15s. Apply 72/7, Office of this Paper.

OPTICAL AND PHOTOGRAPHIC.

WHAT offer? 2 lb. Acid. Acet. Glac. and six 12 x 10 Imperial Plates, ordinary. Apply 88/23, Office of this Paper.

MISCELLANEOUS.

FIVE-GRAIN Pill Machine, new; Greenish, "Materia Medica." 18 Centreville Road, Liverpool.

3 SMALL Oxygen Cylinders; Squire's Pocket Companion, 7s.; British Pharmacopœia, 10s. 6d. M., 41 Newcomen Street, S.E.

MASS Mixer and Emulsifier; Squire's Pocket Companion, 8s.; British Pharmacopœia, 10s. 6d. Apply 93/8, Office of this Paper.

SUPERFINE Tooth Brushes, transparent handles, eight dozen, 12s. doz., sample 1s.; "Express" Black Tooth Combs, 3 in., nine dozen, 5s. 3d. dozen, sample 6d.; Shaving Brushes, wood handle, nickel mounted, six dozen, 20s. dozen, sample 1s. 9d.; post free. Aldous, 48 Harpenden Road, West Norwood, S.E. 27.

ONE 2-cwt. bag Soda Bicarbonate, Brunner Mond's; 5 oz. Quin. Sulph. What offers? 5 doz. Keene's Corn Cure, 5s. 6d. dozen; one Specie Jar, with gilt top, 20s.; one style E Kodak Developing Tank, used, 8s. 6d.; one style A ditto, new, 10s. 6d.; one Cycle Poco Camera, 5 x 4, R.R. lens, Bausch shutter, in tan leather case, 21s.; one Kodak, No. 2 Bullet Camera, 5s. 6d.; shop soiled; post free. Finlayson, Pharmacist, Stockton-on-Tees.

WANTED.

PILL MACHINE, 1 or 2 grain. Lowest price to Caunon, Penzance.

GLYCERINE; puro or commercial. State price, Bailly, Chemist, Margate.

THIOCOL Tabs. (5 gr.), stamped; Protargol. McMullan, Chemists, Larne.

A POWDER Mixer for about 56 lb. Address 218/54, Office of this Paper.

1 LB. Pure Glycerine. Tennant, Chemist, 29 Sussex Place, South Kensington.

SMALL Check Till, also small Enterprise Press. Brampton, Sudbury, Suffolk.

FAIRCHILD'S Peptogenic Milk Powder. Quantity and price to Russell, Chemist, Windsor.

HONEY, Linseed Oil, Turpentine, White Lead Paste, Oxymel-scallæ wanted. McKinlay, Glossop.

QUANTITY prime quality Cream of Zinc. Samples and prices to Hall, Hepsworth & Co., 431 Holloway Road, N.

GUAIACUM Resin and Aspirin. Write, giving particulars, stating lowest price for cash, to 88/26, Office of this Paper.

VACUUM Oven wanted, about 3 ft. square, complete with condenser and vacuum pump. Quote lowest cash price, 88/40, Office of this Paper.

A POLARISCOPE for sugar estimations. State length of tubes, etc., and state spot cash price, to Preston-Jackson, Analytical Chemist, St. Mary Cray.

PHARMACEUTICAL Pocket Book, Martindale, P.J.F., Ganot, B.P., Luff, Attfield, and complete sets for Minor and Major. State prices, 93/7, Office of this Paper.

JOB line Tins wanted, suitable for Boot Polish, etc. We are also buyers of Tin Plates, printed or plain. "Brytenup" Polish Works, Marsh Lane, Preston.

WATSONS' OF _____
SHEFFIELD

**Want high-class cameras with fine lenses,
artificial light enlargers, and vest pocket
cameras of all kinds.
At least 2/3rds retail given for approved models,
In some instances more.**

Is it not better to sell now than to wait till the slump comes? Any cameras on your shelves, and any unsaleable photographic sundries are valuable to us.

Why not sell them now?

You will never have the same chance again.

Ask your nearest chemist friend whether he was satisfied with our prices and business methods.

Cash immediately. Goods returned carriage paid if no business.

Watsons'—The Camera House.

Tel. No. 255 or 27.

New address, 19 Change Alley, Sheffield.

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3/-	" " " " " " " " 8 oz. ...	3/-	27/-
6/-	" " " " " " " " 1 lb. ...	6/-	54/-
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	" " " " " " " " 3 oz.	1/6	13/6
4/-	" " " " " " " " 8 oz.	4/-	36/-
8/-	" " " " " " " " 1 lb.	8/-	72/-
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19	" Throat Pastilles, Nos. 9a, 24a, 24b, 44a and 29a, con- taining either 1/10th or 1/20th gr.-Cocaine, 3oz. tins	1/9	15/9
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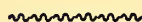
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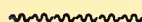
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